# **COLOROBBIA S.P.A.**

# LJP--000005 - Lustro Ambra

Revision nr.23 Dated 10/09/2020 Printed on 12/10/2020 Page n. 1 / 19

Replaced revision:22 (Dated 28/04/2020)

# **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

# SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: LJP--00005
Product name Lustro Ambra

Prodotto metallo-organico per decorazione al terzo fuoco

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use third firing decoration in the glass/ceramics/porcelain sectors

### 1.3. Details of the supplier of the safety data sheet

Name COLOROBBIA S.P.A.
Full address via Pietramarina 53
District and Country 50053 Sovigliana - Vinci

Italia

Tel. +39 0571 7091 Fax +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

### 1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

(FI)

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

# **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

idzai a diaddiiidaiidii aira irraidaidiii		
Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Acute toxicity, category 4	H302	Harmful if swallowed.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H411	Toxic to aquatic life with long lasting effects.
toxicity, category 2		

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# **SECTION 2. Hazards identification**

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:











Signal words: Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

May cause damage to organs through prolonged or repeated exposure. H373

H318 Causes serious eye damage.

H315 Causes skin irritation. H317

May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. H411 L - alpha - pinen **EUH208** Contains:

> (-)-Pin-2(10)-Ene Eucalyptus Oil Eucaliptol

(R)-P-MENTHA-1,8-DIENE

Alpha-Pinene

Eucaliptus globulus oil

May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

Immediately call a POISON CENTER / doctor / . . . P310

P370+P378 In case of fire: use . . . to extinguish.

TURPENTINE Contains:

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

CYCLOHEXANONE

Linalool

### 2.3. Other hazards

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

# **SECTION 3. Composition/information on ingredients**

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# SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**TURPENTINE** 

CAS 8006-64-2 10 ≤ x < 25 Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Chronic 2 H411

EC 232-350-7 INDEX 650-002-00-6 Reg. no. 01-2119553060-53

CYCLOHEXANE

CAS 110-82-7 5 ≤ x < 9 Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 203-806-2 INDEX 601-017-00-1

**ASPHALT** 

CAS 12002-43-6  $5 \le x < 9$ 

EC INDEX

**Synthetic Camphor** 

CAS 76-22-2 5 ≤ x < 9 Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

STOT SE 3 H335

EC 200-945-0

INDEX

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

CAS 64742-82-1  $5 \le x < 9$  Flam. Liq. 3 H226, STOT RE 1 H372, Asp. Tox. 1 H304, STOT SE 3 H336,

Aquatic Chronic 2 H411, EUH066,

Classification note according to Annex VI to the CLP Regulation: P

EC 919-446-0

INDEX

Reg. no. 01-2119458049-33

**CYCLOHEXANONE** 

CAS 108-94-1  $3 \le x < 5$  Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Eye Dam. 1 H318, Skin Irrit. 2 H315

EC 203-631-1 INDEX 606-010-00-7 Reg. no. 01-2119453616-35

CYCLOHEXANOL

CAS 108-93-0  $1 \le x < 5$ 

EC 203-630-6

INDEX 603-009-00-3

Reg. no. 01-2119447488-26-XXXX

4-METHYLPENTAN-2-ONE

CAS 108-10-1  $1 \le x < 5$ 

EC 203-550-1 INDEX 606-004-00-4

INDEX 606-004-00-4 Reg. no. 01-2119473980-30

Linalool

CAS 78-70-6  $1 \le x < 5$ 

EC 201-134-4

INDEX

Reg. no. 01-2119474016-42-0000 XYLENE (MIXTURE OF ISOMERS)

CAS 1330-20-7 1 ≤ x < 5 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315,

Classification note according to Annex VI to the CLP Regulation: C

EC 215-535-7 INDEX 601-022-00-9

ETHYL ACETATE

CAS 141-78-6  $0.5 \le x < 1$ 

EC 205-500-4 INDEX 607-022-00-5 Reg. no. 01-2119475103-46 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066

@EPY 10.1.6 - SDS 1004.13

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# SECTION 3. Composition/information on ingredients

Eucaliptus globulus oil

CAS 84625-32-1  $0,5 \le x < 1$ 

EC 283-406-2

INDEX

Reg. no. 2119978250-37-0000 **1,2,3,4-tetrahydronaphthalene** 

CAS  $119-64-2 0 \le x < 0.5$ 

EC 204-340-2 INDEX 601-045-00-4

Reg. no. 01-2119539463-37-XXXX

Alpha-Pinene

CAS 80-56-8  $0.25 \le x < 0.5$ 

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 201-291-8

INDEX

Reg. no. 01-2119519223-49-0000

(R)-P-MENTHA-1,8-DIENE

CAS 5989-27-5 0 ≤ x < 0,25 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1,

Classification note according to Annex VI to the CLP Regulation: C

Flam. Lig. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

Carc. 2 H351, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 2 H411, EUH019

Flam. Liq. 3 H226, Acute Tox. 4 H302, Asp. Tox. 1 H304, Skin Irrit. 2 H315,

EC 227-813-5

INDEX 601-029-00-7

Reg. no. 01-2119529223-47-000

Camphene

CAS 79-92-5 0 ≤ x < 0,25 Flam. Sol. 1 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC 201-234-8

INDEX

Reg. no. 01-2119446293-40-XXXX

**Eucaliptol** 

CAS 470-82-6  $0 \le x < 0.5$ 

EC 207-431-5

INDEX

Reg. no. 01-2119967772-24-0000

**Eucalyptus Oil** 

CAS 8000-48-4 0 ≤ x < 0,5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC INDEX

(-)-Pin-2(10)-Ene

CAS 127-91-3 0 ≤ x < 0,5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 242-060-2

INDEX

L - alpha - pinen

CAS 7785-26-4 0 ≤ x < 0,25 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Flam. Liq. 3 H226, Skin Sens. 1 H317

Aquatic Chronic 1 H410 M=1

EC INDEX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

# **SECTION 4. First aid measures**

232-077-3

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

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# **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

### **SECTION 6. Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

# 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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# **SECTION 7. Handling and storage**

# 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

# **SECTION 8. Exposure controls/personal protection**

# 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА
	×	ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
		implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
		protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a
		agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006
		privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției
		lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju
		delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
TUR	Türkiye	23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenlenmiştir
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU)
		2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
		2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

				TURI	PENTINE	
Threshold Limit V	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	300				
TLV	CZE	300		800		
VLA	ESP	113	20			
VLEP	FRA	560	100			
TLV	GRC	560	100	840	150	
TGG	NLD	560				
NDS/NDSCh	POL	112		300		
TLV	ROU	400		500		SKIN
MV	SVN	560	100	560	100	SKIN
WEL	GBR	566	100	850	150	
TLV-ACGIH		111	20			

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# **SECTION 8. Exposure controls/personal protection**

				CYCLO	OHEXANE	
Threshold Limit V	/alue					
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	700	200			
TLV	CZE	700	200,2	2000	572	
AGW	DEU	700	200	2800	800	
MAK	DEU	700	200	2800	800	
VLA	ESP	700	200			
VLEP	FRA	700	200	1300	375	11
TLV	GRC	700	200			
VLEP	ITA	350	100			
TGG	NLD	700		1400		
VLE	PRT	700	200			
NDS/NDSCh	POL	300		1000		SKIN
TLV	ROU	700	200			
MV	SVN	700	200	2800	800	
ESD	TUR	700	200			
WEL	GBR	350	100	1050	300	
OEL	EU	700	200			
TLV-ACGIH		344	100			

				ASPHA	LT	
Threshold Limit	Value					
Туре	Country	TWA/8h		STEL/15min	Remarks / Observation	ns
		mg/m3	ppm	mg/m3 pp	m	
TLV-ACGIH		5				

				Synthet	ic Campho	r
Threshold Limit \	/alue					
Type	Country	TWA/8h	TWA/8h		min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		13	2	19	3	

	l	Hydrocarbor	is, C9-C12 n-	alkanes, ISC	DALCANI, CYC	LIC, AROMATIC (2-25%)			
Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH			100						

				CVCI O	ILLANON	F
				CYCLO	HEXANON	E
Threshold Limit \						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	40,8	10	81,6	20	SKIN
TLV	CZE	40	9,8	80	196	SKIN
AGW	DEU	80	20	80	20	SKIN
VLA	ESP	41	10	82	20	SKIN
VLEP	FRA	40,8	10	81,6	20	
TLV	GRC	200	50	400	100	
VLEP	ITA	40,8	10	81,6	20	SKIN
TGG	NLD			50		SKIN
VLE	PRT	40,8	10	81,6	20	SKIN
NDS/NDSCh	POL	40		80		SKIN
TLV	ROU	40,8	10	81,6	20	SKIN
MV	SVN	40,8	10	81,6	20	SKIN
ESD	TUR	40,8	10	81,6	20	SKIN
WEL	GBR	41	10	82	20	SKIN
OEL	EU	40,8	10	81,6	20	SKIN
TLV-ACGIH		80	20	201	50	SKIN

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**SECTION 8. Exposure controls/personal protection** 

				CYCLC	HEXANO	L
Threshold Limit V	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	200				
TLV	CZE	200	48	400	94	SKIN
VLA	ESP	208	50			SKIN
VLEP	FRA	200	50	300	75	
TLV	GRC	200	50			
TGG	NLD		1			
NDS/NDSCh	POL	10				SKIN
TLV	ROU	100	25	200	50	SKIN
MV	SVN	210	50	840	200	SKIN
WEL	GBR	208	50			
TLV-ACGIH		205	50			SKIN

				4-METHYLF	PENTAN-2	ONE	
Threshold Limit \	/alue						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	50		200			
TLV	CZE	80	19,2	200	48	SKIN	
AGW	DEU	83	20	166	40	SKIN	
MAK	DEU	83	20	166	40	SKIN	
VLA	ESP	83	20	208	50		
VLEP	FRA	83	20	208	50		
TLV	GRC	410	100	410	100		
VLEP	ITA	83	20	208	50		
TGG	NLD	104		208			
VLE	PRT	83	20	208	50		
NDS/NDSCh	POL	83		200			
TLV	ROU	83	20	208	50		
MV	SVN	83	20	208	50	SKIN	
ESD	TUR	83	20	208	50		
WEL	GBR	208	50	416	100	SKIN	
OEL	EU	83	20	208	50		
TLV-ACGIH		82	20	307	75		

			Х	YLENE (MIXT	JRE OF IS	OMERS)	
Threshold Limit V	/alue						
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	221	50	442	100	SKIN	
TLV	CZE	200	45,4	400	90,8	SKIN	
AGW	DEU	440	100	880	200	SKIN	
MAK	DEU	440	100	880	200	SKIN	
VLA	ESP	221	50	442	100	SKIN	
VLEP	FRA	221	50	442	100	SKIN	
TLV	GRC	435	100	650	150		
VLEP	ITA	221	50	442	100	SKIN	
TGG	NLD	210		442		SKIN	
VLE	PRT	221	50	442	100	SKIN	
NDS/NDSCh	POL	100		200		SKIN	
TLV	ROU	221	50	442	100	SKIN	
MV	SVN	221	50	442	100	SKIN	
ESD	TUR	221	50	442	100	SKIN	
WEL	GBR	220	50	441	100	SKIN	
OEL	EU	221	50	442	100	SKIN	
TLV-ACGIH		434	100	651	150		

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# **SECTION 8. Exposure controls/personal protection**

				ETHYL	ACETATE				
hreshold Limit \	/alue								
Туре	Country	TWA/8h		STEL/15	STEL/15min		Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	734	200	1468	400				
TLV	CZE	700	191,1	900	245,7				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	734	200	1468	400				
TLV	GRC	734	200	1468	400				
TGG	NLD	734		1468					
VLE	PRT	734	200	1468	400				
NDS/NDSCh	POL	734		1468					
TLV	ROU	400	111	500	139				
MV	SVN	734	200	1468	400				
WEL	GBR	734	200	1468	400				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
Predicted no-effe	ct concentr	ation - PNE	С						
Normal value in							0,26	mg/l	
Normal value in							0,026	mg/l	
Normal value for							1,25	mg/kg	
Normal value for			nt				0,125	mg/kg	
Normal value o							650	mg/l	
Normal value for				ng)			0,2	g/Kg	
Normal value for							0,24	mg/kg	
lealth - Derived ı									
Effects on consumers						Effects on we			
Route of expos			cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sy	stemic	local	systemic	local	systemic	local	systemic
Oral				VND	4,5 mg/kg				
Inhalation	734	73	34	VND	367	1468	1468	734	734
	mg/	m3 m	g/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin				VND	37			VND	63

1,2,3,4-tetrahydronaphthalene								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/1	5min	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		50						

mg/kg

(R)-P-MENTHA-1,8-DIENE											
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15min		Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
AGW	DEU	28	5	112	20	SKIN					
MAK	DEU	28	5	112	20	SKIN					
VLA	ESP	168	30			SKIN					
MV	SVN	28	5	112	20	SKIN					

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

mg/kg

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Protect hands with category III work gloves (see standard EN 374). The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

# **SECTION 9. Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

**Properties** Value Appearance liquid Colour Not available Odour characteristic Odour threshold Not available Not available Melting point / freezing point Not available Initial boiling point Boiling range Not available 18 T≤18 Flash point °C **Evaporation Rate** Not available Not available Flammability of solids and gases Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Vapour density Not available Relative density Not available insoluble in water Solubility Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not applicable Decomposition temperature Not available Viscosity Not available Explosive properties Not available Oxidising properties Not available

### 9.2. Other information

VOC (Directive 2010/75/EC): 47,83 %

Information

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# **SECTION 10. Stability and reactivity**

# 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

#### TURPENTINE

Dissolves rubber.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Stable in normal conditions of use and storage.

#### **CYCLOHEXANONE**

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

#### 4-METHYLPENTAN-2-ONE

Reacts violently with: light metals. Attacks various types of plastic materials.

#### ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

#### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

#### TURPENTINE

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid fluorine

In oxygen atmospheres it generates explosive peroxides.

### **CYCLOHEXANE**

May react violently with: strong oxidants, liquid nitric oxide. Forms explosive mixtures with: air.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Avoid contact with: strong oxidising agents.

May form explosive mixtures with: strong oxidising agents, chlorates, perchlorates, liquid oxygen.

Fire hazard.

### CYCLOHEXANONE

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

### CYCLOHEXANOI

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals, chromium trioxide. Forms explosive mixtures with: air.

### 4-METHYLPENTAN-2-ONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

### XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

### ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

### 10.4. Conditions to avoid

Avoid overheating.

### CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

### **CYCLOHEXANOL**

Avoid exposure to: sources of heat,naked flames.

### 4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

### ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

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# SECTION 10. Stability and reactivity .../>>

**CYCLOHEXANE** 

Incompatible materials: natural rubbers, neoprene, polyvinyl chloride, polyethylene.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Incompatible with: acids,bases,strong oxidants,nitrates,chlorosulphuric acid,aluminium.Incompatible materials: plastic materials. CYCLOHEXANOL

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

TURPENTINE

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

1,2,3,4-tetrahydronaphthalene

Informazioni riferite al 1,2,3,4-tetraidronaftalene:

LD50 orale ratto : 2860 mg/Kg LD50 pelle coniglio: 16710 mg/Kg Pelle : moderatamente irritante

Non sensibilizzante Occhi : non irritante.

1,2,3,4-tetrahydronaphthalene

Informazioni riferite al 1,2,3,4-tetraidronaftalene:

LD50 orale ratto : 2860 mg/Kg LD50 pelle coniglio: 16710 mg/Kg Pelle : moderatamente irritante

Non sensibilizzante Occhi : non irritante.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

**CYCLOHEXANE** 

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

### **CYCLOHEXANE**

Irritating for the skin and mucous membranes, and may be absorbed by the skin; nerve damage can occur at high doses and is largely due to the cyclohexanone, its metabolite.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

NOAEL: 300 mg/Kg (cronic, oral, male animal, 2 years); LOAEC (inhalation, vapour, 90 dyes): 345 ppm; NOAEC(inhalation, rat, vapour): 300 mg/m3; NOAEL (oral, rat, 90 dyes): >= 495 mg/Kg; NOAEC (inhalation, rat, vapour, 90 dyes): 690 ppm; NOAEL (subacute, oral, female animal, 28 dyes): 1056 mg/Kg.

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# SECTION 11. Toxicological information .../>>

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

#### Interactive effects

#### **CYCLOHEXANE**

The substance may enhance the effects of agents such as tri-ortho-cresyl phosphate (TOCP).

### XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

### ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l ATE (Oral) of the mixture: 1136,36 mg/kg ATE (Dermal) of the mixture: >2000 mg/kg

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat 4350 mg/kg Rabbit LD50 (Dermal) LC50 (Inhalation) 26 mg/l/4h Rat

**TURPENTINE** 

LD50 (Oral) 5760 mg/kg Rat

**CYCLOHEXANE** 

LD50 (Oral) > 5000 mg/kg Rat LD50 (Dermal) > 2000 mg/kg Rabbit LC50 (Inhalation) 13,9 mg/l/4h Rat

4-METHYLPENTAN-2-ONE

LD50 (Oral) 2080 mg/kg Rat LD50 (Dermal) > 16000 mg/kg Rabbit > 8,2 mg/l/4h Rat LC50 (Inhalation)

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%) LD50 (Oral) > 15000 mg/kg Rat LD50 (Dermal) > 4 ml/Kg Rat

# SKIN CORROSION / IRRITATION

Causes skin irritation

# SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

May produce an allergic reaction.

Contains:

L - alpha - pinen

(-)-Pin-2(10)-Ene

Eucalyptus Oil Eucaliptol

(R)-P-MENTHA-1,8-DIENE

Alpha-Pinene

Eucaliptus globulus oil

# GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

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# SECTION 11. Toxicological information .../>>

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

# REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

### STOT - REPEATED EXPOSURE

May cause damage to organs

### ASPIRATION HAZARD

Toxic for aspiration

# **SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment

# 12.1. Toxicity

(R)-P-MENTHA-1,8-DIENE

LC50 - for Fish 35 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 69,6 mg/l/48h Daphnia pulex

**CYCLOHEXANE** 

LC50 - for Fish

4,53 mg/l/96h Pimephales promelas
EC50 - for Crustacea

3,89 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants

32,7 mg/l/72h Chlorella vulgaris

### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

### TURPENTINE

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Degradability: information not available

**TURPENTINE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

(R)-P-MENTHA-1,8-DIENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

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# SECTION 12. Ecological information .../>>

CYCLOHEXANE

0,1 - 100 mg/l Solubility in water

Rapidly degradable

**CYCLOHEXANOL** 36000 mg/l Solubility in water

Rapidly degradable

4-METHYLPENTAN-2-ONE

Solubility in water > 10000 mg/l

Rapidly degradable

CYCLOHEXANONE

0,1 - 100 mg/l Solubility in water

Rapidly degradable

ETHYL ACETATE Solubility in water > 10000 mg/l

Rapidly degradable

# 12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12 25,9

(R)-P-MENTHA-1,8-DIENE

Partition coefficient: n-octanol/water 4,38 BCF 1022

**CYCLOHEXANE** 

Partition coefficient: n-octanol/water 3,44

**CYCLOHEXANOL** 

1,25 Partition coefficient: n-octanol/water

4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water 1,9

CYCLOHEXANONE

Partition coefficient: n-octanol/water 0,86

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 **BCF** 30

### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

CYCLOHEXANE

Partition coefficient: soil/water 2,89

4-METHYLPENTAN-2-ONE

2,008 Partition coefficient: soil/water

CYCLOHEXANONE

Partition coefficient: soil/water 1,18

### 12.5. Results of PBT and vPvB assessment

vPvB substances contained:

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#### **SECTION 12. Ecological information** .../>>

Camphene

PBT substances contained:

Camphene

#### 12.6. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

### 14.1. UN number

ADR / RID, IMDG, IATA: 1263

### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

IMDG: PAINT or PAINT RELATED MATERIAL (TURPENTINE)

PAINT or PAINT RELATED MATERIAL IATA:

# 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

Class: 3 Label: 3 IATA:



### 14.4. Packing group

ADR / RID, IMDG, IATA:

### 14.5. Environmental hazards

ADR / RID: **Environmentally Hazardous** 

IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

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Tunnel restriction code: (D/E)

Packaging instructions: 364

Packaging instructions: 353

# SECTION 14. Transport information .../>>

### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33

Limited Quantities: 5 L Special Provision: 640C

IMDG: EMS: F-E, S-E

Limited Quantities: 5 L IATA: Cargo: Maximum quantity: 60 L

Pass.: Maximum quantity: 5 L

Special Instructions: A3. A72. A192

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

# **SECTION 15. Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c-E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point

Contained substance

Point 57 CYCLOHEXANE

### Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

# SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2 Flam. Liq. 3 Flammable liquid, category 3 Flam. Sol. 1 Flammable solid, category 1 Carc. 2 Carcinogenicity, category 2 Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Dam. 1 Serious eye damage, category 1 Eye irritation, category 2 Eye Irrit. 2 Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1 Skin Sens. 1B Skin sensitization, category 1B

Hazardous to the aquatic environment, acute toxicity, category 1 **Aquatic Acute 1 Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity, category 1

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### SECTION 16. Other information .../>>

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

**H228** Flammable solid.

**H351** Suspected of causing cancer.

H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

**H372** Causes damage to organs through prolonged or repeated exposure.

**H304** May be fatal if swallowed and enters airways.

**H373** May cause damage to organs through prolonged or repeated exposure.

H318Causes serious eye damage.H319Causes serious eye irritation.H315Causes skin irritation.

H335May cause respiratory irritation.H317May cause an allergic skin reaction.H336May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

**EUH019** May form explosive peroxides.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)

# **COLOROBBIA S.P.A.**

# LJP--000005 - Lustro Ambra

Revision nr.23 Dated 10/09/2020 Printed on 12/10/2020 Page n. 19 / 19

Replaced revision:22 (Dated 28/04/2020)

### SECTION 16. Other information .../>>

- 13. Regulation (EU) 2017/776 (X Atp. CLP)14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

# CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 03 / 08 / 09.

# **COLOROBBIA ITALIA S.P.A.**

# LNP--000001 - Lustro Nero

Revision nr.33 Dated 08/09/2020 Printed on 26/11/2020 Page n. 1 / 20

Replaced revision:32 (Dated 08/09/2020)

# **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

# SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: LNP--000001
Product name Lustro Nero

Prodotto metallo-organico per decorazione al terzo fuoco

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use third firing decoration in the glass/ceramics/porcelain sectors

### 1.3. Details of the supplier of the safety data sheet

Name COLOROBBIA ITALIA S.P.A.

Full address via Pietramarina 53

District and Country 50053 Sovigliana - Vinci (FI)

Italia

Tel. +39 0571 7091 Fax +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

### 1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

# **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Acute toxicity, category 4	H302	Harmful if swallowed.
Acute toxicity, category 4	H332	Harmful if inhaled.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure,	H335	May cause respiratory irritation.
category 3		
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H410	Very toxic to aquatic life with long lasting effects.
toxicity, category 1		

# **COLOROBBIA ITALIA S.P.A.**

# LNP--000001 - Lustro Nero

Revision nr.33 Dated 08/09/2020 Printed on 26/11/2020 Page n. 2 / 20 Replaced revision:32 (Dated 08/09/2020)

# **SECTION 2. Hazards identification**

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:









Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour. H302+H332 Harmful if swallowed or if inhaled.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation. H315 Causes skin irritation.

H335 May cause respiratory irritation. May cause an allergic skin reaction. H317

Very toxic to aquatic life with long lasting effects. H410 Malaleuca alternifolia extract **EUH208** Contains:

> L - alpha - pinen terpinolen (-)-Pin-2(10)-Ene Alpha-Pinene Eucaliptol

May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection. P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .

In case of fire: use . . . to extinguish. P370+P378 P273 Avoid release to the environment.

Contains: TURPENTINE

> Anethole Eucalyptus Oil Eugenol ROSIN

(R)-P-MENTHA-1,8-DIENE Eucaliptus globulus oil

Linalool

### 2.3. Other hazards

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

# **SECTION 3. Composition/information on ingredients**

# **COLOROBBIA**

# **COLOROBBIA ITALIA S.P.A.**

# LNP--000001 - Lustro Nero

Revision nr.33 Dated 08/09/2020 Printed on 26/11/2020 Page n. 3 / 20

Replaced revision:32 (Dated 08/09/2020)

# **SECTION 3. Composition/information on ingredients**

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**TURPENTINE** 

CAS 8006-64-2  $10 \le x < 25$  Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

**Aquatic Chronic 2 H411** 

Skin Sens. 1 H317

EC 232-350-7 INDEX 650-002-00-6 Reg. no. 01-2119553060-53

CYCLOHEXANOL

CAS 108-93-0  $10 \le x < 20$ 

EC 203-630-6 INDEX 603-009-00-3

Reg. no. 01-2119447488-26-XXXX

**ROSIN** 

CAS 8050-09-7  $9 \le x < 25$ 

EC 232-475-7 INDEX 650-015-00-7

Reg. no. 01-2119480418-32-XXXX

**Eucalyptus Oil** 

CAS 8000-48-4 5 ≤ x < 9 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC
INDEX
Au Resinate

CAS  $1 \le x < 5$  Flam. Sol. 1 H228

EC 945-694-4

INDEX

Synthetic Camphor

CAS 76-22-2 1 ≤ x < 5 Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

**STOT SE 3 H335** 

EC 200-945-0

INDEX

Eugenol

CAS 97-53-0 1 ≤ x < 5 Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1 H317

EC INDEX

Decahydronaphthalene

CAS 91-17-8 1 ≤ x < 2,5 Flam. Liq. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314,

Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=10

EC 202-046-9

INDEX

Reg. no. 01-2119565127-37-XXXX

Linalool

CAS 78-70-6 1 ≤ x < 5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

EC 201-134-4

INDEX

Reg. no. 01-2119474016-42-0000

Methylcyclohexanol

CAS 25639-42-3  $1 \le x < 5$  Acute Tox. 4 H332

EC 247-152-6

INDEX

Eucaliptus globulus oil

CAS 84625-32-1 1 ≤ x < 2,5 Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 283-406-2

INDEX

Reg. no. 2119978250-37-0000

(R)-P-MENTHA-1,8-DIENE

CAS 5989-27-5 1 ≤ x < 2,5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1,

Classification note according to Annex VI to the CLP Regulation: C

EC 227-813-5 INDEX 601-029-00-7

Reg. no. 01-2119529223-47-000

©EPY 10.1.6 - SDS 1004.13

#### FΝ

# **COLOROBBIA**

# COLOROBBIA ITALIA S.P.A.

# LNP--000001 - Lustro Nero

Acute Tox. 4 H302, Acute Tox. 4 H332, Eve Irrit, 2 H319

Flam. Liq. 3 H226, Acute Tox. 4 H302, Asp. Tox. 1 H304, Skin Irrit. 2 H315,

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066

Flam. Liq. 3 H226, Skin Sens. 1 H317

Eye Dam. 1 H318, Skin Irrit. 2 H315

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Replaced revision:32 (Dated 08/09/2020)

# **SECTION 3. Composition/information on ingredients**

Anethole

CAS 104-46-1 1 ≤ x < 5 Skin Sens. 1 H317

EC

INDEX BENZYL ALCOHOL

100-51-6 1 ≤ x < 5 CAS

2032055

EC 202-859-9 INDEX 603-057-00-5

01-2119492630-38-0000 Reg. no.

Eucaliptol

CAS 470-82-6  $0.5 \le x < 1$ 

EC 207-431-5

**INDEX** 

Reg. no. 01-2119967772-24-0000

Alpha-Pinene

80-56-8 CAS 0.5 < x < 1

201-291-8 FC

INDEX

01-2119519223-49-0000 Reg. no.

**CYCLOHEXANONE** 

CAS 108-94-1  $0.5 \le x < 1$ 

203-631-1 FC INDEX 606-010-00-7 01-2119453616-35 Rea. no.

4-METHYLPENTAN-2-ONE

 $0 \le x < 0.5$ CAS 108-10-1

EC 203-550-1 **INDEX** 606-004-00-4 01-2119473980-30 Rea. no.

CYCLOHEXANE

CAS 110-82-7  $0.25 \le x < 0.5$ 

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 203-806-2 **INDEX** 601-017-00-1

**XYLENE (MIXTURE OF ISOMERS)** CAS

1330-20-7  $0 \le x < 0.5$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315,

Classification note according to Annex VI to the CLP Regulation: C

Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336,

EC 215-535-7 INDEX 601-022-00-9

Camphene

CAS 79-92-5  $0.25 \le x < 0.5$ 

Flam. Sol. 1 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1 EC 201-234-8

**INDEX** 

01-2119446293-40-XXXX Reg. no.

(-)-Pin-2(10)-Ene

CAS 127-91-3  $0 \le x < 0.5$ 

EC 242-060-2

INDEX

1,2,3,4-tetrahydronaphthalene CAS 119-64-2  $0 \le x < 0.5$ 

EC 204-340-2

INDEX 601-045-00-4

Reg. no. 01-2119539463-37-XXXX

terpinolen

CAS 586-62-9  $0 \le x < 0.25$ 

EC 209-578-0

INDFX

Reg. no. 01-2119982325-32-XXXX

L - alpha - pinen

CAS 7785-26-4  $0 \le x < 0.25$ 

232-077-3 EC

INDEX

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317

Carc. 2 H351, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 2 H411, EUH019

Aquatic Chronic 1 H410 M=1

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

@EPY 10.1.6 - SDS 1004.13

# **COLOROBBIA ITALIA S.P.A.**

# LNP--000001 - Lustro Nero

Dated 08/09/2020 Printed on 26/11/2020 Page n. 5 / 20

Replaced revision:32 (Dated 08/09/2020)

# SECTION 3. Composition/information on ingredients

Malaleuca alternifolia extract

CAS  $85085-48-9 \quad 0 \le x < 0.25$ 

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC INDEX

**ETHYL ACETATE** 

CAS 141-78-6  $0 \le x < 0.5$ 

EC 205-500-4 INDEX 607-022-00-5 Reg. no. 01-2119475103-46 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

# **SECTION 5. Firefighting measures**

# 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

# 5.2. Special hazards arising from the substance or mixture

### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

# 5.3. Advice for firefighters

### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

# SECTION 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency

# **COLOROBBIA ITALIA S.P.A.**

# LNP--000001 - Lustro Nero

Dated 08/09/2020 Printed on 26/11/2020 Page n. 6 / 20

Replaced revision:32 (Dated 08/09/2020)

# SECTION 6. Accidental release measures .../>>

procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

# 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

# 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

# **SECTION 8. Exposure controls/personal protection**

# 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА
	•	ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
		kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019
	•	(INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΏΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
		implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
	3.4.0	protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a
		agentes guímicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12
102	1 Oloka	czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006
1100	rtomama	privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției
		, , , , , , , , , , , , , , , , , , , ,
		lucrătorilor împotriva riscurilor legate de prezența agenților chimici

EU

# **COLOROBBIA ITALIA S.P.A.**

# LNP--000001 - Lustro Nero

Revision nr. 33 Dated 08/09/2020 Printed on 26/11/2020 Page n. 7 / 20 Replaced revision:32 (Dated 08/09/2020)

# **SECTION 8. Exposure controls/personal protection**

SVN Slovenija

Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu

23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenlenmiştir **TUR** Türkiye United Kingdom EH40/2005 Workplace exposure limits (Third edition, published 2018) **GBR** 

OEL EU

Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive

2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH **ACGIH 2019** 

TURPENTINE										
Threshold Limit V	'alue									
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	BGR	300								
TLV	CZE	300		800						
VLA	ESP	113	20							
VLEP	FRA	560	100							
TLV	GRC	560	100	840	150					
TGG	NLD	560								
NDS/NDSCh	POL	112		300						
TLV	ROU	400		500		SKIN				
MV	SVN	560	100	560	100	SKIN				
WEL	GBR	566	100	850	150					
TLV-ACGIH		111	20							

	CYCLOHEXANOL											
Threshold Limit Value												
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
TLV	BGR	200										
TLV	CZE	200	48	400	94	SKIN						
VLA	ESP	208	50			SKIN						
VLEP	FRA	200	50	300	75							
TLV	GRC	200	50									
TGG	NLD		1									
NDS/NDSCh	POL	10				SKIN						
TLV	ROU	100	25	200	50	SKIN						
MV	SVN	210	50	840	200	SKIN						
WEL	GBR	208	50									
TLV-ACGIH		205	50			SKIN						

				R	ROSIN				
reshold Limit V	alue								
Туре	Country	TWA/8h	l	STEL/15	min	Remarks / Obs	servations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	1		-		INHAL			
TLV	ROU	0,1							
WEL	GBR	0,05		0,15					
edicted no-effec	t concentr	ation - PN	EC						
Normal value in	fresh water						0,002	mg/l	
Normal value in	marine wat	er					0,0002	mg/l	
Normal value for	r fresh wate	r sediment					0,007	mg/kg/d	
Normal value for	r marine wa	ter sedime	nt				0,001	mg/kg/d	
Normal value of	STP micro	organisms					1000	mg/l	
Normal value fo	r the terresti	rial compar	tment				0,00031	mg/kg/d	
alth - Derived n	o-effect lev	el - DNEL	/ DMEL						
	Effe	ects on con	sumers			Effects on worke	ers		
Route of exposu	ire Acu	ite A	cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al s	ystemic	local	systemic	local	systemic	local	systemic
Oral					1,065				
					mg/kg bw/d				
Inhalation								10	
								mg/m3	
					1,065				2,131
Skin									
Skin					mg/kg bw/d				mg/kg

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# SECTION 8. Exposure controls/personal protection .../>

Synthetic Camphor								
Threshold Limit \	/alue							
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		13	2	19	3			

Decahydronaphthalene								
<b>Threshold Limit</b>	Value							
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		100						

Methylcyclohexanol							
Threshold Limit	t Value						
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH			50				

	(R)-P-MENTHA-1,8-DIENE											
Threshold Limit Value												
Type	Country	TWA/8h		STEL/15min		Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
AGW	DEU	28	5	112	20	SKIN						
MAK	DEU	28	5	112	20	SKIN						
VLA	ESP	168	30			SKIN						
MV	SVN	28	5	112	20	SKIN						

				BENZYI	_ ALCOHO						
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15i	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV	BGR	5									
TLV	CZE	40	8,88	80	17,76						
AGW	DEU	22	5	44	10	SKIN 11					
NDS/NDSCh	POL	240									
MV	SVN	22	5	44	10	SKIN					

CYCLOHEXANONE										
Threshold Limit V	/alue									
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	BGR	40,8	10	81,6	20	SKIN				
TLV	CZE	40	9,8	80	196	SKIN				
AGW	DEU	80	20	80	20	SKIN				
VLA	ESP	41	10	82	20	SKIN				
VLEP	FRA	40,8	10	81,6	20					
TLV	GRC	200	50	400	100					
VLEP	ITA	40,8	10	81,6	20	SKIN				
TGG	NLD			50		SKIN				
VLE	PRT	40,8	10	81,6	20	SKIN				
NDS/NDSCh	POL	40		80		SKIN				
TLV	ROU	40,8	10	81,6	20	SKIN				
MV	SVN	40,8	10	81,6	20	SKIN				
ESD	TUR	40,8	10	81,6	20	SKIN				
WEL	GBR	41	10	82	20	SKIN				
OEL	EU	40,8	10	81,6	20	SKIN				
TLV-ACGIH		80	20	201	50	SKIN				

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SECTION 8. Exposure controls/personal protection ..../

				4-METHYLP	PENTAN-2-	ONE	
Threshold Limit \	/alue						
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	50		200			
TLV	CZE	80	19,2	200	48	SKIN	
AGW	DEU	83	20	166	40	SKIN	
MAK	DEU	83	20	166	40	SKIN	
VLA	ESP	83	20	208	50		
VLEP	FRA	83	20	208	50		
TLV	GRC	410	100	410	100		
VLEP	ITA	83	20	208	50		
TGG	NLD	104		208			
VLE	PRT	83	20	208	50		
NDS/NDSCh	POL	83		200			
TLV	ROU	83	20	208	50		
MV	SVN	83	20	208	50	SKIN	
ESD	TUR	83	20	208	50		
WEL	GBR	208	50	416	100	SKIN	
OEL	EU	83	20	208	50		
TLV-ACGIH		82	20	307	75		

CYCLOHEXANE										
Threshold Limit V	/alue									
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	BGR	700	200							
TLV	CZE	700	200,2	2000	572					
AGW	DEU	700	200	2800	800					
MAK	DEU	700	200	2800	800					
VLA	ESP	700	200							
VLEP	FRA	700	200	1300	375	11				
TLV	GRC	700	200							
VLEP	ITA	350	100							
TGG	NLD	700		1400						
VLE	PRT	700	200							
NDS/NDSCh	POL	300		1000		SKIN				
TLV	ROU	700	200							
MV	SVN	700	200	2800	800					
ESD	TUR	700	200							
WEL	GBR	350	100	1050	300					
OEL	EU	700	200							
TLV-ACGIH		344	100							

XYLENE (MIXTURE OF ISOMERS)										
Threshold Limit V	/alue									
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	BGR	221	50	442	100	SKIN				
TLV	CZE	200	45,4	400	90,8	SKIN				
AGW	DEU	440	100	880	200	SKIN				
MAK	DEU	440	100	880	200	SKIN				
VLA	ESP	221	50	442	100	SKIN				
VLEP	FRA	221	50	442	100	SKIN				
TLV	GRC	435	100	650	150					
VLEP	ITA	221	50	442	100	SKIN				
TGG	NLD	210		442		SKIN				
VLE	PRT	221	50	442	100	SKIN				
NDS/NDSCh	POL	100		200		SKIN				
TLV	ROU	221	50	442	100	SKIN				
MV	SVN	221	50	442	100	SKIN				
ESD	TUR	221	50	442	100	SKIN				
WEL	GBR	220	50	441	100	SKIN				
OEL	EU	221	50	442	100	SKIN				
TLV-ACGIH		434	100	651	150					

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1,2,3,4-tetrahydronaphthalene										
Threshold Limit	Value									
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV-ACGIH		50								

				ETHYL	ACETATE				
Threshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	imin	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	734	200	1468	400				
TLV	CZE	700	191,1	900	245,7				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	734	200	1468	400				
TLV	GRC	734	200	1468	400				
TGG	NLD	734		1468					
VLE	PRT	734	200	1468	400				
NDS/NDSCh	POL	734		1468					
TLV	ROU	400	111	500	139				
MV	SVN	734	200	1468	400				
WEL	GBR	734	200	1468	400				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
Predicted no-effe	ct concentra	tion - PNE	С						
Normal value in	fresh water						0,26	mg/l	
Normal value in	marine wate	er					0,026	mg/l	
Normal value for	or fresh water	sediment					1,25	mg/kg	
Normal value for	or marine wat	er sedimen	t				0,125	mg/kg	
Normal value of	f STP microo	rganisms					650	mg/l	
Normal value for	or the food ch	ain (second	dary poisonir	ng)			0,2	g/Kg	
Normal value for	or the terrestr	ial compart	ment				0,24	mg/kg	
Health - Derived r	no-effect leve	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on wo	orkers		
Route of expos	ure Acut	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sy	stemic	local	systemic	local	systemic	local	systemic
Oral				VND	4,5 mg/kg				
Inhalation	734	73	4	VND	367	1468	1468	734	734
	mg/ı	m3 mg	g/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	J			VND	37	J	•	VŇD	63
					mg/kg				mg/kg

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

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RESPIRATORY PROTECTIONIf the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

# **SECTION 9. Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

**Properties** Value Appearance liquid Colour Not available Odour characteristic Odour threshold Not available Not available Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point 34 T≤39 °C **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Vapour density Not available Relative density Not available Solubility insoluble in water Partition coefficient: n-octanol/water Not available Not applicable Auto-ignition temperature Decomposition temperature Not available Not available Viscosity Explosive properties Not available Oxidising properties Not available

# Information

### 9.2. Other information

VOC (Directive 2010/75/EC): 34,91 %

# **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

**TURPENTINE** 

Dissolves rubber.

BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

CYCLOHEXANONE

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

### 4-METHYLPENTAN-2-ONE

Reacts violently with: light metals. Attacks various types of plastic materials.

ETHYL ACETATE

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# SECTION 10. Stability and reactivity .../>>

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

#### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

#### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

### **TURPENTINE**

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid, fluorine.

In oxygen atmospheres it generates explosive peroxides.

#### **CYCLOHEXANOL**

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals, chromium trioxide. Forms explosive mixtures with: air.

#### BENZYL ALCOHOL

May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus trichloride.

#### CYCLOHEXANONE

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

#### 4-METHYLPENTAN-2-ONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

#### **CYCLOHEXANE**

May react violently with: strong oxidants.liquid nitric oxide.Forms explosive mixtures with: air.

### XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

### ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

### 10.4. Conditions to avoid

Avoid overheating.

### CYCLOHEXANOL

Avoid exposure to: sources of heat,naked flames.

### BENZYL ALCOHOL

Avoid exposure to: air, sources of heat, naked flames.

### CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

### 4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

### ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

# CYCLOHEXANOL

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

# BENZYL ALCOHOL

Incompatible with: sulphuric acid,oxidising substances,aluminium.

### 4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

### **CYCLOHEXANE**

Incompatible materials: natural rubbers,neoprene,polyvinyl chloride,polyethylene.

### ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

### **TURPENTINE**

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

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# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Eugenol

Informazioni riferite all'eugenolo: LD50 orale ratto 2650 mg/Kg LD50 dermale coniglio 5000 mg/Kg.

1,2,3,4-tetrahydronaphthalene

Informazioni riferite al 1,2,3,4-tetraidronaftalene:

LD50 orale ratto : 2860 mg/Kg LD50 pelle coniglio: 16710 mg/Kg Pelle : moderatamente irritante

Non sensibilizzante Occhi : non irritante.

Eugenol

Informazioni riferite all'eugenolo: LD50 orale ratto 2650 mg/Kg LD50 dermale coniglio 5000 mg/Kg.

1,2,3,4-tetrahydronaphthalene

Informazioni riferite al 1,2,3,4-tetraidronaftalene:

LD50 orale ratto : 2860 mg/Kg LD50 pelle coniglio: 16710 mg/Kg Pelle : moderatamente irritante

Non sensibilizzante Occhi : non irritante.

# 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

**CYCLOHEXANE** 

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

### CYCLOHEXANE

Irritating for the skin and mucous membranes, and may be absorbed by the skin; nerve damage can occur at high doses and is largely due to the cyclohexanone, its metabolite.

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

**CYCLOHEXANE** 

The substance may enhance the effects of agents such as tri-ortho-cresyl phosphate (TOCP).

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side

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### SECTION 11. Toxicological information .../>>

effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

### ACUTE TOXICITY

ATE (Inhalation) of the mixture: 17,14 mg/l ATE (Oral) of the mixture: 876,69 mg/kg ATE (Dermal) of the mixture: >2000 mg/kg

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat LD50 (Dermal) 4350 mg/kg Rabbit LC50 (Inhalation) 26 mg/l/4h Rat

**TURPENTINE** 

LD50 (Oral) 5760 mg/kg Rat

CYCLOHEXANE

LD50 (Oral) > 5000 mg/kg Rat > 2000 mg/kg Rabbit LD50 (Dermal) LC50 (Inhalation) 13,9 mg/l/4h Rat

BENZYL ALCOHOL

1230 mg/kg Rat LD50 (Oral) LD50 (Dermal) 2000 mg/kg Rabbit > 4,1 mg/l/4h Rat LC50 (Inhalation)

4-METHYLPENTAN-2-ONE

LD50 (Oral) 2080 mg/kg Rat > 16000 mg/kg Rabbit LD50 (Dermal) LC50 (Inhalation) > 8,2 mg/l/4h Rat

### SKIN CORROSION / IRRITATION

Causes skin irritation

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin May produce an allergic reaction.

Contains:

Malaleuca alternifolia extract

L - alpha - pinen terpinolen (-)-Pin-2(10)-Ene Alpha-Pinene Eucaliptol

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

# CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

### REPRODUCTIVE TOXICITY

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# **SECTION 11. Toxicological information**

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

# **SECTION 12. Ecological information**

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity

(R)-P-MENTHA-1,8-DIENE

LC50 - for Fish 35 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 69,6 mg/l/48h Daphnia pulex

**CYCLOHEXANE** 

4,53 mg/l/96h Pimephales promelas LC50 - for Fish 3,89 mg/l/48h Daphnia magna EC50 - for Crustacea EC50 - for Algae / Aquatic Plants 32,7 mg/l/72h Chlorella vulgaris

### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment

36000 mg/l

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Degradability: information not available

**TURPENTINE** 

**ROSIN** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

0,1 - 100 mg/l Solubility in water

Rapidly degradable

(R)-P-MENTHA-1,8-DIENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

CYCLOHEXANE Solubility in water 0,1 - 100 mg/l

Rapidly degradable

CYCLOHEXANOL

Solubility in water Rapidly degradable

@EPY 10.1.6 - SDS 1004.13

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#### **SECTION 12. Ecological information** .../>>

BENZYL ALCOHOL Rapidly degradable

4-METHYLPENTAN-2-ONE

Solubility in water > 10000 mg/l

Rapidly degradable

CYCLOHEXANONE

0,1 - 100 mg/l Solubility in water

Rapidly degradable

**ETHYL ACETATE** 

Solubility in water > 10000 mg/l

Rapidly degradable

### 12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3 12 BCF 25,9

**ROSIN** 

Partition coefficient: n-octanol/water

56,23

(R)-P-MENTHA-1,8-DIENE

4.38 Partition coefficient: n-octanol/water 1022

CYCLOHEXANE

Partition coefficient: n-octanol/water 3,44

CYCLOHEXANOL

Partition coefficient: n-octanol/water 1,25

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1,1

4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water 1,9

CYCLOHEXANONE

0,86 Partition coefficient: n-octanol/water

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 **BCF** 30

### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

ROSIN

Partition coefficient: soil/water 3.7289

**CYCLOHEXANE** 

Partition coefficient: soil/water 2,89

4-METHYLPENTAN-2-ONE

Partition coefficient: soil/water 2,008

CYCLOHEXANONE

Partition coefficient: soil/water 1,18

### 12.5. Results of PBT and vPvB assessment

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Printed on 26/11/2020 Page n. 17 / 20 Replaced revision:32 (Dated 08/09/2020)

# **SECTION 12. Ecological information**

vPvB substances contained: Camphene

PBT substances contained: Camphene

#### 12.6. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

**CONTAMINATED PACKAGING** 

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

### 14.1. UN number

ADR / RID, IMDG, IATA:

### 14.2. UN proper shipping name

PAINT or PAINT RELATED MATERIAL ADR / RID:

PAINT or PAINT RELATED MATERIAL (TURPENTINE) IMDG:

IATA: PAINT or PAINT RELATED MATERIAL

# 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



### 14.4. Packing group

ADR / RID, IMDG, IATA: Ш

### 14.5. Environmental hazards

ADR / RID: **Environmentally Hazardous** 

IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

@EPY 10.1.6 - SDS 1004.13

## **COLOROBBIA**

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#### SECTION 14. Transport information .../>>

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special Provision: IMDG: EMS: F-E, S-E Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 220 L Packaging instructions: 366
Pass.: Maximum quantity: 60 L Packaging instructions: 355

Special Instructions: A3, A72, A192

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c-E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 57 CYCLOHEXANE

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2 Flam. Liq. 3 Flammable liquid, category 3 Flam. Sol. 1 Flammable solid, category 1 Carc. 2 Carcinogenicity, category 2 Acute Tox. 3 Acute toxicity, category 3 Acute Tox. 4 Acute toxicity, category 4 Aspiration hazard, category 1 Asp. Tox. 1 Skin Corr. 1B Skin corrosion, category 1B Eye Dam. 1 Serious eye damage, category 1 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1
Skin Sens. 1B Skin sensitization, category 1B

**Aquatic Acute 1** Hazardous to the aquatic environment, acute toxicity, category 1 **Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity, category 1

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#### SECTION 16. Other information .../>>

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

**H228** Flammable solid.

**H351** Suspected of causing cancer.

H331 Toxic if inhaled.

H302+H332 Harmful if swallowed or if inhaled.

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H315 Causes skin irritation.
 H335 May cause respiratory irritatio

H335May cause respiratory irritation.H317May cause an allergic skin reaction.H336May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

**EUH019** May form explosive peroxides.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament

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#### SECTION 16. Other information .../>>

- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

03.

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## LBP--000019 - Lustro Bleu

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## **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

LBP--000019 Code: Product name Lustro Bleu

Prodotto metallo-organico per decorazione al terzo fuoco

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

third firing decoration in the glass/ceramics/porcelain sectors Intended use

#### 1.3. Details of the supplier of the safety data sheet

COLOROBBIA ITALIA S.P.A. Name

Full address via Pietramarina 53

50053 Sovigliana - Vinci **District and Country** (FI)

Italia

+39 0571 7091 Tel. +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

> Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

#### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Acute toxicity, category 4	H302	Harmful if swallowed.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

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## LBP--000019 - Lustro Bleu

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## **SECTION 2. Hazards identification**

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:









.../>>

Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. H411 **EUH208** Contains: Eucaliptus globulus oil

Linalool

May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection. P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .

P370+P378 In case of fire: use . . . to extinguish. P273 Avoid release to the environment.

Contains: **TURPENTINE** 

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Eucalyptus Oil

ROSIN

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

### **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**TURPENTINE** 

CAS 8006-64-2 Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,  $25 \le x < 40$ 

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

**Aquatic Chronic 2 H411** 

FC 232-350-7 INDEX 650-002-00-6 01-2119553060-53 Reg. no.

ROSIN

CAS 8050-09-7  $9 \le x < 25$ 

EC 232-475-7 650-015-00-7

INDEX 01-2119480418-32-XXXX Reg. no.

Skin Sens. 1 H317

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### SECTION 3. Composition/information on ingredients

**CYCLOHEXANOL** 

CAS 108-93-0  $5 \le x < 9$ 

EC 203-630-6 INDEX 603-009-00-3

Reg. no. 01-2119447488-26-XXXX

**Synthetic Camphor** 

CAS 76-22-2 5 ≤ x < 9 Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

**STOT SE 3 H335** 

EC 200-945-0

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**CYCLOHEXANE** 

CAS 110-82-7  $2.5 \le x < 5$  Fla

Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336,

Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 203-806-2 INDEX 601-017-00-1

**Eucalyptus Oil** 

CAS 8000-48-4 2,5 ≤ x < 5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC INDEX

Titanium tetraisopropanolate

CAS 546-68-9  $1 \le x < 5$  Eye Irrit. 2 H319, STOT SE 3 H336

EC 208-909-6

INDEX

Reg. no. 01-2119967389-17-xxxx

Au Resinate

CAS  $1 \le x < 5$  Flam. Sol. 1 H228

EC 945-694-4

INDEX

XYLENE (MIXTURE OF ISOMERS)

CAS 1330-20-7 1 ≤ x < 5 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315,

Classification note according to Annex VI to the CLP Regulation: C

EC 215-535-7 INDEX 601-022-00-9

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

CAS 64742-82-1 1 ≤ x < 2,5 Flam. Liq. 3 H226, STOT RE 1 H372, Asp. Tox. 1 H304, STOT SE 3 H336,

Aquatic Chronic 2 H411, EUH066,

Classification note according to Annex VI to the CLP Regulation: P

Carc. 2 H351, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 2 H411, EUH019

EC 919-446-0

INDEX

Reg. no. 01-2119458049-33

1,2,3,4-tetrahydronaphthalene

CAS 119-64-2  $0,5 \le x < 1$ 

EC 204-340-2 INDEX 601-045-00-4

INDEX 601-045-00-4 Reg. no. 01-2119539463-37-XXXX

Linalool

CAS 78-70-6 0,5 ≤ x < 1 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

EC 201-134-4

INDEX

Reg. no. 01-2119474016-42-0000

**ETHYL ACETATE** 

CAS 141-78-6 0,5 ≤ x < 1 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 205-500-4 INDEX 607-022-00-5 Reg. no. 01-2119475103-46

Eucaliptus globulus oil

CAS 84625-32-1 0 ≤ x < 0,5 Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 283-406-2

INDEX

Reg. no. 2119978250-37-0000

4-METHYLPENTAN-2-ONE

CAS 108-10-1 0 ≤ x < 0,5 Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066 FC 203-550-1

INDEX 606-004-00-4 Reg. no. 01-2119473980-30

The full wording of hazard (H) phrases is given in section 16 of the sheet.

EPY 10.1.6 - SDS 1004.13

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#### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

#### 5.3. Advice for firefighters

#### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

#### **SECTION 6. Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb

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#### SECTION 6. Accidental release measures .../>

the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

### SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
		implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
		protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a
		agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006
		privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției
		lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju
		delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
TUR	Türkiye	23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenlenmiştir
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

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SECTION 8. Exposure controls/personal protection

|--|

				TUR	PENTINE										
Threshold Limit V	hreshold Limit Value														
Type	Country	TWA/8h	TWA/8h		min	Remarks / Observations									
		mg/m3	ppm	mg/m3	ppm										
TLV	BGR	300													
TLV	CZE	300		800											
VLA	ESP	113	20												
VLEP	FRA	560	100												
TLV	GRC	560	100	840	150										
TGG	NLD	560													
NDS/NDSCh	POL	112		300											
TLV	ROU	400		500		SKIN									
MV	SVN	560	100	560	100	SKIN									
WEL	GBR	566	100	850	150										
TLV-ACGIH		111	20												

				R	OSIN				
hreshold Limit Va	lue								
Туре	Country	TWA/8h		STEL/15r	min	Remarks /	Observations		
• •	•	mg/m3	ppm	mg/m3	ppm				
TLV	CZE	1				INHAL			
TLV	ROU	0,1							
WEL	GBR	0,05		0,15					
redicted no-effect	t concentra	ation - PNE	С						
Normal value in f	resh water						0,002	mg/l	
Normal value in r	marine wate	er					0,0002	mg/l	
Normal value for	fresh water	r sediment					0,007	mg/kg/d	
Normal value for	marine wat	ter sedimen	nt				0,001	mg/kg/d	
Normal value of S	STP microo	rganisms					1000	mg/l	
Normal value for	the terrestr	ial compart	ment				0,00031	mg/kg/d	
ealth - Derived no	effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on w	orkers		
Route of exposur	re Acu	te Ad	cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sy	stemic	local	systemic	local	systemic	local	systemic
Oral					1,065 mg/kg bw/d				
Inhalation								10	
								mg/m3	
Skin					1,065			-	2,131
					mg/kg bw/d				mg/kg
									bw/d

	CYCLOHEXANOL													
Threshold Limit V	hreshold Limit Value													
Type	Country	TWA/8h	TWA/8h		min	Remarks / Observations								
		mg/m3	ppm	mg/m3	ppm									
TLV	BGR	200												
TLV	CZE	200	48	400	94	SKIN								
VLA	ESP	208	50			SKIN								
VLEP	FRA	200	50	300	75									
TLV	GRC	200	50											
TGG	NLD		1											
NDS/NDSCh	POL	10				SKIN								
TLV	ROU	100	25	200	50	SKIN								
MV	SVN	210	50	840	200	SKIN								
WEL	GBR	208	50											
TLV-ACGIH		205	50			SKIN								

				Synthet	ic Campho	or and the second secon						
Threshold Limit Value												
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
TLV-ACGIH		13	2	19	3							

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### SECTION 8. Exposure controls/personal protection

				CYCLO	OHEXANE									
Threshold Limit \	hreshold Limit Value													
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations								
		mg/m3	ppm	mg/m3	ppm									
TLV	BGR	700	200											
TLV	CZE	700	200,2	2000	572									
AGW	DEU	700	200	2800	800									
MAK	DEU	700	200	2800	800									
VLA	ESP	700	200											
VLEP	FRA	700	200	1300	375	11								
TLV	GRC	700	200											
VLEP	ITA	350	100											
TGG	NLD	700		1400										
VLE	PRT	700	200											
NDS/NDSCh	POL	300		1000		SKIN								
TLV	ROU	700	200											
MV	SVN	700	200	2800	800									
ESD	TUR	700	200											
WEL	GBR	350	100	1050	300									
OEL	EU	700	200											
TLV-ACGIH		344	100											

	XYLENE (MIXTURE OF ISOMERS)													
Threshold Limit V	Threshold Limit Value													
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations								
		mg/m3	ppm	mg/m3	ppm									
TLV	BGR	221	50	442	100	SKIN								
TLV	CZE	200	45,4	400	90,8	SKIN								
AGW	DEU	440	100	880	200	SKIN								
MAK	DEU	440	100	880	200	SKIN								
VLA	ESP	221	50	442	100	SKIN								
VLEP	FRA	221	50	442	100	SKIN								
TLV	GRC	435	100	650	150									
VLEP	ITA	221	50	442	100	SKIN								
TGG	NLD	210		442		SKIN								
VLE	PRT	221	50	442	100	SKIN								
NDS/NDSCh	POL	100		200		SKIN								
TLV	ROU	221	50	442	100	SKIN								
MV	SVN	221	50	442	100	SKIN								
ESD	TUR	221	50	442	100	SKIN								
WEL	GBR	220	50	441	100	SKIN								
OEL	EU	221	50	442	100	SKIN								
TLV-ACGIH		434	100	651	150									

	ı	- - - - - - - - - - - - - - - - - - -	s, C9-C12	n-alkanes, ISC	DALCANI,	, CYCLIC, AROMATIC (2-25%)	
Threshold Limit	Value	•	•	·	·	,	
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH			100				

1,2,3,4-tetrahydronaphthalene												
Threshold Limit Value												
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
TLV-ACGIH		50										

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Threshold Limit Value  Type Country TWA/8h STEL/15min Remarks / Observations  mg/m3 ppm mg/m3 ppm  TLV BGR 734 200 1468 400  TLV CZE 700 191,1 900 245,7  AGW DEU 730 200 1460 400  MAK DEU 750 200 1500 400  VLA ESP 734 200 1468 400	
Type         Country         TWA/8h         STEL/15min         Remarks / Observations           mg/m3         ppm         mg/m3         ppm           TLV         BGR         734         200         1468         400           TLV         CZE         700         191,1         900         245,7           AGW         DEU         730         200         1460         400           MAK         DEU         750         200         1500         400	
mg/m3         ppm         mg/m3         ppm           TLV         BGR         734         200         1468         400           TLV         CZE         700         191,1         900         245,7           AGW         DEU         730         200         1460         400           MAK         DEU         750         200         1500         400	
TLV CZE 700 191,1 900 245,7 AGW DEU 730 200 1460 400 MAK DEU 750 200 1500 400	
AGW DEU 730 200 1460 400 MAK DEU 750 200 1500 400	
MAK DEU 750 200 1500 400	
VLA ESP 734 200 1468 400	
VLEP FRA 734 200 1468 400	
TLV GRC 734 200 1468 400	
TGG NLD 734 1468	
VLE PRT 734 200 1468 400	
NDS/NDSCh POL 734 1468	
TLV ROU 400 111 500 139	
MV SVN 734 200 1468 400	
WEL GBR 734 200 1468 400	
OEL EU 734 200 1468 400	
TLV-ACGIH 1441 400	
Predicted no-effect concentration - PNEC	
Normal value in fresh water 0,26 mg/l	
Normal value in marine water 0,026 mg/l	
Normal value for fresh water sediment 1,25 mg/kg	J
Normal value for marine water sediment 0,125 mg/kg	J
Normal value of STP microorganisms 650 mg/l	
Normal value for the food chain (secondary poisoning) 0,2 g/Kg	
Normal value for the terrestrial compartment 0,24 mg/kg	J
Health - Derived no-effect level - DNEL / DMEL	
Effects on consumers Effects on workers	
Route of exposure Acute Acute Chronic Chronic Acute Acute Chron	nic Chronic
local systemic local systemic local systemic local	systemic
Oral VND 4,5 mg/kg	
Inhalation         734         734         VND         367         1468         1468         734           mg/m3         mg/m3	734 3 mg/m3
Skin VND 37 VND mg/kg	63 mg/kg

				4-METHYLF	PENTAN-2	-ONE
Threshold Limit V	/alue					
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	50		200		
TLV	CZE	80	19,2	200	48	SKIN
AGW	DEU	83	20	166	40	SKIN
MAK	DEU	83	20	166	40	SKIN
VLA	ESP	83	20	208	50	
VLEP	FRA	83	20	208	50	
TLV	GRC	410	100	410	100	
VLEP	ITA	83	20	208	50	
TGG	NLD	104		208		
VLE	PRT	83	20	208	50	
NDS/NDSCh	POL	83		200		
TLV	ROU	83	20	208	50	
MV	SVN	83	20	208	50	SKIN
ESD	TUR	83	20	208	50	
WEL	GBR	208	50	416	100	SKIN
OEL	EU	83	20	208	50	
TLV-ACGIH		82	20	307	75	

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

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### SECTION 8. Exposure controls/personal protection

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends

on the duration and type of use. SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

Value

### **SECTION 9. Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

liquid
Not available
characteristic
Not available
23 T≤31 °C
Not available
Not available
Not applicable
Not applicable
Not applicable
Not applicable
Not available
Not available
Not available
insoluble in water
Not available
Not applicable
Not available
Not available
Not available
Not available

#### 9.2. Other information

**Properties** 

Information

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## **COLOROBBIA ITALIA S.P.A.**

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#### SECTION 9. Physical and chemical properties .../>>

VOC (Directive 2010/75/EC): 42,27 %

### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

#### **TURPENTINE**

Dissolves rubber

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Stable in normal conditions of use and storage.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

#### 4-METHYLPENTAN-2-ONE

Reacts violently with: light metals. Attacks various types of plastic materials.

#### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

#### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

#### **TURPENTINE**

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid. fluorine.

In oxygen atmospheres it generates explosive peroxides.

#### **CYCLOHEXANOL**

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals, chromium trioxide. Forms explosive mixtures with: air.

#### CYCLOHEXANE

May react violently with: strong oxidants, liquid nitric oxide. Forms explosive mixtures with: air.

#### XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Avoid contact with: strong oxidising agents.

May form explosive mixtures with: strong oxidising agents, chlorates, perchlorates, liquid oxygen.

Fire hazard.

#### ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

#### 4-METHYLPENTAN-2-ONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

#### 10.4. Conditions to avoid

Avoid overheating.

#### CYCLOHEXANOL

Avoid exposure to: sources of heat,naked flames.

#### ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

#### 4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

#### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

#### **CYCLOHEXANOL**

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

#### CYCLOHEXANE

Incompatible materials: natural rubbers,neoprene,polyvinyl chloride,polyethylene.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Incompatible with: acids,bases,strong oxidants,nitrates,chlorosulphuric acid,aluminium.Incompatible materials: plastic materials.

#### ETHYL ACETATE

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#### SECTION 10. Stability and reactivity .../>>

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

#### TURPENTINE

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

#### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 1,2,3,4-tetrahydronaphthalene

Informazioni riferite al 1,2,3,4-tetraidronaftalene:

LD50 orale ratto : 2860 mg/Kg LD50 pelle coniglio: 16710 mg/Kg Pelle : moderatamente irritante

Non sensibilizzante Occhi : non irritante.

#### 1,2,3,4-tetrahydronaphthalene

Informazioni riferite al 1,2,3,4-tetraidronaftalene:

LD50 orale ratto : 2860 mg/Kg LD50 pelle coniglio: 16710 mg/Kg Pelle : moderatamente irritante

Non sensibilizzante Occhi : non irritante.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

#### **CYCLOHEXANE**

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

#### XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **CYCLOHEXANE**

Irritating for the skin and mucous membranes, and may be absorbed by the skin; nerve damage can occur at high doses and is largely due to the cyclohexanone, its metabolite.

#### XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

NOAEL: 300 mg/Kg (cronic, oral, male animal, 2 years); LOAEC (inhalation, vapour, 90 dyes): 345 ppm; NOAEC(inhalation, rat, vapour): 300 mg/m3; NOAEL (oral, rat, 90 dyes): >= 495 mg/Kg; NOAEC (inhalation, rat, vapour, 90 dyes): 690 ppm; NOAEL (subacute, oral, female animal, 28 dyes): 1056 mg/Kg.

#### Interactive effects

#### **CYCLOHEXANE**

The substance may enhance the effects of agents such as tri-ortho-cresyl phosphate (TOCP).

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#### SECTION 11. Toxicological information .../>>

#### XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l ATE (Oral) of the mixture: 862,07 mg/kg ATE (Dermal) of the mixture: >2000 mg/kg

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat 4350 mg/kg Rabbit LD50 (Dermal) LC50 (Inhalation) 26 mg/l/4h Rat

**TURPENTINE** 

LD50 (Oral) 5760 mg/kg Rat

**CYCLOHEXANE** 

LD50 (Oral) > 5000 mg/kg Rat LD50 (Dermal) > 2000 mg/kg Rabbit LC50 (Inhalation) 13,9 mg/l/4h Rat

4-METHYLPENTAN-2-ONE

LD50 (Oral) 2080 mg/kg Rat LD50 (Dermal) > 16000 mg/kg Rabbit LC50 (Inhalation) > 8,2 mg/l/4h Rat

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%) LD50 (Oral) > 15000 mg/kg Rat > 4 ml/Kg Rat LD50 (Dermal)

#### SKIN CORROSION / IRRITATION

Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin May produce an allergic reaction. Contains:

Eucaliptus globulus oil

Linalool

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

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### SECTION 11. Toxicological information .../>>

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Toxic for aspiration

### **SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

#### 12.1. Toxicity

CYCLOHEXANE

LC50 - for Fish 4,53 mg/l/96h Pimephales promelas EC50 - for Crustacea 3,89 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants 32,7 mg/l/72h Chlorella vulgaris

#### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

**TURPENTINE** 

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

XYLENE (MIXTURE OF ISOMERS)

100 - 1000 mg/l Solubility in water

Degradability: information not available

**TURPENTINE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

0,1 - 100 mg/l Solubility in water

Rapidly degradable

CYCLOHEXANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

CYCLOHEXANOL Solubility in water 36000 mg/l

Rapidly degradable

4-METHYLPENTAN-2-ONE

Solubility in water > 10000 mg/l Rapidly degradable

ETHYL ACETATE

> 10000 mg/l Solubility in water

Rapidly degradable

#### 12.3. Bioaccumulative potential

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#### **SECTION 12. Ecological information** .../>>

XYLENE (MIXTURE OF ISOMERS) Partition coefficient: n-octanol/water **BCF** 

3,12 25,9

**ROSIN** 

Partition coefficient: n-octanol/water 56,23 **BCF** 

CYCLOHEXANE

3,44 Partition coefficient: n-octanol/water

CYCLOHEXANOL

Partition coefficient: n-octanol/water 1,25

4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water 1,9

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 BCF 30

#### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

ROSIN

Partition coefficient: soil/water 3,7289

CYCLOHEXANE

Partition coefficient: soil/water 2,89

4-METHYLPENTAN-2-ONE

Partition coefficient: soil/water 2,008

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0.1%.

#### 12.6. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, IATA: 1263

### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

IMDG: PAINT or PAINT RELATED MATERIAL (TURPENTINE)

PAINT or PAINT RELATED MATERIAL IATA:

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### SECTION 14. Transport information .../>>

#### 14.3. Transport hazard class(es)

ADR / RID:

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

Class: 3

Label: 3



#### 14.4. Packing group

ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID:

**Environmentally Hazardous** 

IMDG:

Marine Pollutant



IATA:

NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

#### 14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 30

Limited Quantities: 5 L

Tunnel restriction code: (D/E)

Packaging instructions: 366

IMDG: IATA:

Special Provision: -

EMS: F-E, S-E

Limited Quantities: 5 L

Maximum quantity: 220 L A3, A72, A192

Maximum quantity: 60 L

Packaging instructions: 355

Cargo: Pass.: Special Instructions:

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC:

P5c-E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

57 **CYCLOHEXANE** Point

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

Substances subject to the Rotterdam Convention:

None

### **COLOROBBIA**

## **COLOROBBIA ITALIA S.P.A.**

## LBP--000019 - Lustro Bleu

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#### SECTION 15. Regulatory information .../>

Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

#### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Flam. Sol. 1 Flammable solid, category 1
Carc. 2 Carcinogenicity, category 2
Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1
Skin Sens. 1B Skin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

**H225** Highly flammable liquid and vapour. **H226** Flammable liquid and vapour.

**H228** Flammable solid.

H351 Suspected of causing cancer.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

**H304** May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.
H315 Causes skin irritation.

H335 May cause respiratory irritation.
 H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

**EUH019** May form explosive peroxides.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%

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#### SECTION 16. Other information .../>>

- OEL: Occupational Exposure Level- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

#### Changes to previous review:

The following sections were modified:

03 / 08 / 09.

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## **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: PAX--001044
Product name Platino Brillante

Prodotto metallo-organico per decorazione al terzo fuoco

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use third firing decoration in the glass/ceramics/porcelain sectors

#### 1.3. Details of the supplier of the safety data sheet

Name COLOROBBIA S.P.A.
Full address via Pietramarina 53
District and Country 50053 Sovigliana - Vinci

Italia

Tel. +39 0571 7091 Fax +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

(FI)

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

#### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

#### Hazard classification and indication:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
	H302 H304 H373 H319 H315 H335

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#### **SECTION 2. Hazards identification**

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:









Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

May cause damage to organs through prolonged or repeated exposure. H373

Causes serious eye irritation. H319 H315 Causes skin irritation.

H335 May cause respiratory irritation. May cause an allergic skin reaction. H317 Toxic to aquatic life with long lasting effects. H411

**EUH208** Contains: Anethole

L - alpha - pinen

Malaleuca alternifolia extract

(-)-Pin-2(10)-Ene Alpha-Pinene

May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection. P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .

P370+P378 In case of fire: use . . . to extinguish. P273 Avoid release to the environment.

Contains: TURPENTINE

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Eucalyptus Oil Eugenol

(R)-P-MENTHA-1,8-DIENE Eucaliptus globulus oil

Eucaliptol Linalool

#### 2.3. Other hazards

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

### **SECTION 3. Composition/information on ingredients**

#### FΝ

### **COLOROBBIA**

## COLOROBBIA S.P.A.

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#### **SECTION 3. Composition/information on ingredients** / >>

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**Synthetic Camphor** 

CAS 76-22-2  $10 \le x < 20$ Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

STOT SE 3 H335

200-945-0 FC

INDEX

**TURPENTINE** 

CAS 8006-64-2  $10 \le x < 25$ Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Chronic 2 H411

EC 232-350-7

INDEX 650-002-00-6 01-2119553060-53 Reg. no.

Eugenol

97-53-0 Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1 H317 CAS  $5 \le x < 9$ 

EC INDEX

Au Resinate

Flam. Sol. 1 H228 CAS 5 < x < 9

945-694-4 EC

INDEX **Eucalyptus Oil** 

8000-48-4  $2.5 \le x < 5$ 

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411 CAS EC

INDEX

**CYCLOHEXANOL** 

108-93-0 Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335 CAS  $1 \le x < 5$ 

EC 203-630-6 **INDEX** 603-009-00-3

01-2119447488-26-XXXX Rea. no.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Flam. Lig. 3 H226, STOT RE 1 H372, Asp. Tox. 1 H304, STOT SE 3 H336, CAS 64742-82-1  $1 \le x < 2.5$ 

Aquatic Chronic 2 H411, EUH066,

Classification note according to Annex VI to the CLP Regulation: P

EC 919-446-0

INDEX

Reg. no. 01-2119458049-33

Linalool

CAS 78-70-6 1≤x< 5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

EC 201-134-4

INDEX

01-2119474016-42-0000 Reg. no.

Eucaliptus globulus oil

CAS 84625-32-1 1 ≤ x < 2.5 Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 283-406-2

INDEX

Reg. no. 2119978250-37-0000

**Eucaliptol** 

CAS 470-82-6 1≤x< 5

207-431-5

**INDEX** 

EC

01-2119967772-24-0000 Reg. no.

Nitroethane

CAS Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H332 79-24-3  $1 \le x < 5$ 

EC 201-188-9 609-035-00-1 INDFX

(R)-P-MENTHA-1,8-DIENE

CAS 5989-27-5  $1 \le x < 25$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Flam. Liq. 3 H226, Skin Sens. 1 H317

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1,

Classification note according to Annex VI to the CLP Regulation: C

227-813-5 EC **INDEX** 601-029-00-7

01-2119529223-47-000 Reg. no.

@EPY 10.1.6 - SDS 1004.13

#### FΝ

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#### **SECTION 3. Composition/information on ingredients**

4-METHYLPENTAN-2-ONE

CAS 108-10-1  $0.5 \le x < 1$ 

Flam. Lig. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066

EC 203-550-1 INDEX 606-004-00-4 01-2119473980-30 Reg. no.

Alpha-Pinene

CAS 80-56-8  $0.5 \le x < 1$ Flam. Liq. 3 H226, Acute Tox. 4 H302, Asp. Tox. 1 H304, Skin Irrit. 2 H315,

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 201-291-8

INDEX

Reg. no. 01-2119519223-49-0000

Camphene

CAS 79-92-5  $0.25 \le x < 0.5$ Flam. Sol. 1 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC 201-234-8

INDEX

01-2119446293-40-XXXX Reg. no.

(-)-Pin-2(10)-Ene

CAS 127-91-3  $0 \le x < 0.5$ Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317

242-060-2 FC

INDEX

**CYCLOHEXANONE** 

108-94-1 Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,  $0 \le x < 0.5$ 

Eye Dam. 1 H318, Skin Irrit. 2 H315

FC 203-631-1 INDFX 606-010-00-7 Reg. no. 01-2119453616-35

Malaleuca alternifolia extract

CAS 85085-48-9  $0 \le x < 0.25$ Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC INDEX

**ETHYL ACETATE** 

141-78-6 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 CAS  $0 \le x < 0.5$ 

EC 205-500-4 607-022-00-5 INDEX 01-2119475103-46 Rea. no.

L - alpha - pinen

CAS 7785-26-4  $0 \le x < 0.25$ Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC 232-077-3

**INDEX Anethole** 

CAS 104-46-1

 $0 \le x < 0.5$ Skin Sens. 1 H317

EC 2032055

INDEX

TETRAHYDROFURFURYL ALCOHOL

CAS 97-99-4  $0 \le x < 0.3$ Repr. 1B H360Df, Eye Irrit. 2 H319

EC 202-625-6 **INDEX** 603-061-00-7

**XYLENE (MIXTURE OF ISOMERS)** 

1330-20-7  $0 \le x < 0.5$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, CAS Classification note according to Annex VI to the CLP Regulation: C

EC 215-535-7 INDEX 601-022-00-9

The full wording of hazard (H) phrases is given in section 16 of the sheet.

#### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a

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#### SECTION 4. First aid measures .../>>

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

#### 5.3. Advice for firefighters

#### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

### **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

#### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may

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#### SECTION 7. Handling and storage .../>>

accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА
		ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
		kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019
		(INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
		implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
		protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a
		agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12
		czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006
		privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției
		lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju
		delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
TUR	Türkiye	23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenlenmiştir
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU)
		2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
		2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

				Synthet	ic Camp	hor
Threshold Limit \	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		13	2	19	3	

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1>>

				TUR	PENTINE		
Threshold Limit V	/alue						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	300					
TLV	CZE	300		800			
VLA	ESP	113	20				
VLEP	FRA	560	100				
TLV	GRC	560	100	840	150		
TGG	NLD	560					
NDS/NDSCh	POL	112		300			
TLV	ROU	400		500		SKIN	
MV	SVN	560	100	560	100	SKIN	
WEL	GBR	566	100	850	150		
TLV-ACGIH		111	20				

				CYCLC	HEXANOL	
Threshold Limit V	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	200				
TLV	CZE	200	48	400	94	SKIN
VLA	ESP	208	50			SKIN
VLEP	FRA	200	50	300	75	
TLV	GRC	200	50			
TGG	NLD		1			
NDS/NDSCh	POL	10				SKIN
TLV	ROU	100	25	200	50	SKIN
MV	SVN	210	50	840	200	SKIN
WEL	GBR	208	50			
TLV-ACGIH		205	50			SKIN

	Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)										
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV-ACGIH			100								

Threshold Limit Value           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           MGW         DEU         28         5         112         20         SKIN           MAK         DEU         28         5         112         20         SKIN           VLA         ESP         168         30         SKIN           MV         SVN         28         5         112         20         SKIN					(R)-P-MEN	THA-1,8-D	DIENE
mg/m3         ppm         mg/m3         ppm           AGW         DEU         28         5         112         20         SKIN           MAK         DEU         28         5         112         20         SKIN           VLA         ESP         168         30         SKIN	<b>Threshold Limi</b>	it Value					
AGW DEU 28 5 112 20 SKIN MAK DEU 28 5 112 20 SKIN VLA ESP 168 30 SKIN	Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
MAK         DEU         28         5         112         20         SKIN           VLA         ESP         168         30         SKIN			mg/m3	ppm	mg/m3	ppm	
VLA ESP 168 30 SKIN	AGW	DEU	28	5	112	20	SKIN
	MAK	DEU	28	5	112	20	SKIN
MV SVN 28 5 112 20 SKIN	VLA	ESP	168	30			SKIN
	MV	SVN	28	5	112	20	SKIN

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				4-METHYLF	PENTAN-2	-ONE	
Threshold Limit V	/alue						
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	50		200			
TLV	CZE	80	19,2	200	48	SKIN	
AGW	DEU	83	20	166	40	SKIN	
MAK	DEU	83	20	166	40	SKIN	
VLA	ESP	83	20	208	50		
VLEP	FRA	83	20	208	50		
TLV	GRC	410	100	410	100		
VLEP	ITA	83	20	208	50		
TGG	NLD	104		208			
VLE	PRT	83	20	208	50		
NDS/NDSCh	POL	83		200			
TLV	ROU	83	20	208	50		
MV	SVN	83	20	208	50	SKIN	
ESD	TUR	83	20	208	50		
WEL	GBR	208	50	416	100	SKIN	
OEL	EU	83	20	208	50		
TLV-ACGIH		82	20	307	75		

				CYCLO	HEXANON	VE.
Threshold Limit V	/alue					
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	40,8	10	81,6	20	SKIN
TLV	CZE	40	9,8	80	196	SKIN
AGW	DEU	80	20	80	20	SKIN
VLA	ESP	41	10	82	20	SKIN
VLEP	FRA	40,8	10	81,6	20	
TLV	GRC	200	50	400	100	
VLEP	ITA	40,8	10	81,6	20	SKIN
TGG	NLD			50		SKIN
VLE	PRT	40,8	10	81,6	20	SKIN
NDS/NDSCh	POL	40		80		SKIN
TLV	ROU	40,8	10	81,6	20	SKIN
MV	SVN	40,8	10	81,6	20	SKIN
ESD	TUR	40,8	10	81,6	20	SKIN
WEL	GBR	41	10	82	20	SKIN
OEL	EU	40,8	10	81,6	20	SKIN
TLV-ACGIH		80	20	201	50	SKIN

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				EIHY	L ACETATE				
hreshold Limit V									
Туре	Country	TWA/8h		STEL/15		Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	734	200	1468	400				
TLV	CZE	700	191,1	900	245,7				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	734	200	1468	400				
TLV	GRC	734	200	1468	400				
TGG	NLD	734		1468					
VLE	PRT	734	200	1468	400				
NDS/NDSCh	POL	734		1468					
TLV	ROU	400	111	500	139				
MV	SVN	734	200	1468	400				
WEL	GBR	734	200	1468	400				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
redicted no-effe	ct concentra	ation - PNE	C						
Normal value in	fresh water						0,26	mg/l	
Normal value in	marine water	er					0,026	mg/l	
Normal value for	r fresh water	sediment					1,25	mg/kg	
Normal value for	r marine wa	ter sedimer	t				0,125	mg/kg	
Normal value of	f STP microc	rganisms					650	mg/l	
Normal value for	r the food ch	ain (secon	dary poison	ing)			0,2	g/Kg	
Normal value for	r the terrestr	ial compart	ment	<b>O</b> /			0,24	mg/kg	
lealth - Derived n								Ů Ů	
	Effe	cts on cons	umers			Effects on w	orkers		
Route of exposi	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca		stemic	local	systemic	local	systemic	local	systemic
Oral		-,		VND	4,5		-,		-,
					mg/kg				
Inhalation	734	73	4	VND	367	1468	1468	734	734
	mg/		g/m3	=	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	9/	;	y•	VND	37			VND	63
J				****	mg/kg				mg/kg

XYLENE (MIXTURE OF ISOMERS)						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	221	50	442	100	SKIN
TLV	CZE	200	45,4	400	90,8	SKIN
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
VLA	ESP	221	50	442	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
TLV	GRC	435	100	650	150	
VLEP	ITA	221	50	442	100	SKIN
TGG	NLD	210		442		SKIN
VLE	PRT	221	50	442	100	SKIN
NDS/NDSCh	POL	100		200		SKIN
TLV	ROU	221	50	442	100	SKIN
MV	SVN	221	50	442	100	SKIN
ESD	TUR	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

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#### SECTION 8. Exposure controls/personal protection

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to quarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends

on the duration and type of use. SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

Value

### **SECTION 9. Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Properties** Appearance liauid Colour brown Odour characteristic Odour threshold Not available Not applicable Melting point / freezing point Not available Initial boiling point Not available Not available Boiling range Flash point 38 T≤43 °C Not available **Evaporation Rate** Flammability of solids and gases Not available Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Not available Vapour density 1,00 - 1,05 Relative density insoluble in water Solubility Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not applicable Not available Decomposition temperature Viscosity 65 - 75 cP Explosive properties Not available Oxidising properties Not available

### Information

#### 9.2. Other information

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### SECTION 9. Physical and chemical properties ..../

VOC (Directive 2010/75/EC): 25,38 %

### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

#### **TURPENTINE**

Dissolves rubber

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Stable in normal conditions of use and storage.

4-METHYLPENTAN-2-ONE

Reacts violently with: light metals. Attacks various types of plastic materials.

CYCLOHEXANONE

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

#### **ETHYL ACETATE**

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

#### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

#### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

#### TURPENTINE

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid fluorine

In oxygen atmospheres it generates explosive peroxides.

#### CYCLOHEXANOL

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals,chromium trioxide. Forms explosive mixtures with: air.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Avoid contact with: strong oxidising agents.

May form explosive mixtures with: strong oxidising agents, chlorates, perchlorates, liquid oxygen.

Fire hazard.

#### 4-METHYLPENTAN-2-ONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

#### CYCLOHEXANONE

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

#### ETHYL ACETATE

Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine,strong oxidising agents,chlorosulphuric acid,potassium tert-butoxide.Forms explosive mixtures with: air.

#### XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

#### 10.4. Conditions to avoid

Avoid overheating

#### CYCLOHEXANOL

Avoid exposure to: sources of heat,naked flames.

#### 4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

#### CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

#### ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

#### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

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#### SECTION 10. Stability and reactivity .../>>

CYCLOHEXANOL

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Incompatible with: acids,bases,strong oxidants,nitrates,chlorosulphuric acid,aluminium.Incompatible materials: plastic materials.

4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

TURPENTINE

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Eugenol

Informazioni riferite all'eugenolo:

LD50 orale ratto 2650 mg/Kg

LD50 dermale coniglio 5000 mg/Kg.

Eugenol

Informazioni riferite all'eugenolo:

LD50 orale ratto 2650 mg/Kg

LD50 dermale coniglio 5000 mg/Kg.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

NOAEL: 300 mg/Kg (cronic, oral, male animal, 2 years); LOAEC (inhalation, vapour, 90 dyes): 345 ppm; NOAEC(inhalation, rat, vapour): 300 mg/m3; NOAEL (oral, rat, 90 dyes): >= 495 mg/Kg; NOAEC (inhalation, rat, vapour, 90 dyes): 690 ppm; NOAEL (subacute, oral, female animal, 28 dyes): 1056 mg/Kg.

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

#### Interactive effects

#### XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: 781,25 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

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#### SECTION 11. Toxicological information .../>>

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat LD50 (Dermal) 4350 mg/kg Rabbit LC50 (Inhalation) 26 mg/l/4h Rat

TURPENTINE

LD50 (Oral) 5760 mg/kg Rat

TETRAHYDROFURFURYL ALCOHOL

LD50 (Oral) 1600 mg/kg Rat

4-METHYLPENTAN-2-ONE

LD50 (Oral) 2080 mg/kg Rat > 16000 mg/kg Rabbit LD50 (Dermal) LC50 (Inhalation) > 8,2 mg/l/4h Rat

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%) LD50 (Oral) > 15000 mg/kg Rat LD50 (Dermal) > 4 ml/Kg Rat

#### SKIN CORROSION / IRRITATION

Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

May produce an allergic reaction.

Contains:

Anethole

L - alpha - pinen

Malaleuca alternifolia extract

(-)-Pin-2(10)-Ene

Alpha-Pinene

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE

May cause respiratory irritation

#### STOT - REPEATED EXPOSURE

May cause damage to organs

#### ASPIRATION HAZARD

Toxic for aspiration

### **COLOROBBIA**

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### **SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

#### 12.1. Toxicity

(R)-P-MENTHA-1,8-DIENE

LC50 - for Fish EC50 - for Crustacea 35 mg/l/96h Oncorhynchus mykiss 69,6 mg/l/48h Daphnia pulex

#### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable. TURPENTINE

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Degradability: information not available

**TURPENTINE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

(R)-P-MENTHA-1,8-DIENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

CYCLOHEXANOL

Solubility in water 36000 mg/l

Rapidly degradable

TETRAHYDROFURFURYL ALCOHOL

Solubility in water > 10000 mg/l

Rapidly degradable

4-METHYLPENTAN-2-ONE

Solubility in water > 10000 mg/l

Rapidly degradable

CYCLOHEXANONE
Solubility in water 0,1 - 100 mg/l

Rapidly degradable

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12 BCF 25,9

(R)-P-MENTHA-1,8-DIENE

Partition coefficient: n-octanol/water 4,38 BCF 1022

#### FΝ

### **COLOROBBIA**

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#### SECTION 12. Ecological information .../>>

**CYCLOHEXANOL** 

1,25 Partition coefficient: n-octanol/water

TETRAHYDROFURFURYL ALCOHOL

Partition coefficient: n-octanol/water -0,14

4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water 1.9

CYCLOHEXANONE

Partition coefficient: n-octanol/water 0,86

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 **BCF** 30

#### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

4-METHYLPENTAN-2-ONE

2,008 Partition coefficient: soil/water

CYCLOHEXANONE

Partition coefficient: soil/water 1,18

#### 12.5. Results of PBT and vPvB assessment

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

#### 12.6. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

**CONTAMINATED PACKAGING** 

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, IATA: 1263

#### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

PAINT or PAINT RELATED MATERIAL (TURPENTINE) IMDG:

IATA: PAINT or PAINT RELATED MATERIAL

#### FΝ

### **COLOROBBIA**

## COLOROBBIA S.P.A.

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#### SECTION 14. Transport information .../>>

#### 14.3. Transport hazard class(es)

ADR / RID:

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

Class: 3

Label: 3



#### 14.4. Packing group

ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID:

**Environmentally Hazardous** 

IMDG:

Marine Pollutant

IATA:

NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

#### 14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 30

Limited Quantities: 5 L

Tunnel restriction code: (D/E)

IMDG: IATA:

Special Provision: -

EMS: F-E, S-E

Cargo:

Limited Quantities: 5 L Maximum quantity: 220 L

Pass.: Special Instructions: Maximum quantity: 60 L A3, A72, A192

Packaging instructions: 366 Packaging instructions: 355

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC:

P5c-E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

30 TETRAHYDROFURFURYL ALCOHOL Point

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

Substances subject to the Rotterdam Convention:

None

#### ΕN

### **COLOROBBIA**

### COLOROBBIA S.P.A.

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### SECTION 15. Regulatory information .../>

Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Flam. Sol. 1 Flammable solid, category 1
Repr. 1B Reproductive toxicity, category 1B

Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Dam. 1 Serious eye damage, category 1
Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1
Skin Sens. 1B Skin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

**H225** Highly flammable liquid and vapour. **H226** Flammable liquid and vapour.

**H228** Flammable solid.

**H360Df** May damage the unborn child. Suspected of damaging fertility.

H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

**H372** Causes damage to organs through prolonged or repeated exposure.

**H304** May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

H335 May cause respiratory irritation.
 H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%

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### SECTION 16. Other information .../>>

- LD50: Lethal dose 50%- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12

#### Changes to previous review:

The following sections were modified:

01/03/07/08/09/11.

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### LRP--000010 - Lustro Bronzo

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### **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

LRP--000010 Code: Product name **Lustro Bronzo** 

Prodotto metallo-organico per decorazione al terzo fuoco

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

third firing decoration in the glass/ceramics/porcelain sectors Intended use

#### 1.3. Details of the supplier of the safety data sheet

COLOROBBIA ITALIA S.P.A. Name

Full address via Pietramarina 53 **District and Country** 

50053 Sovigliana - Vinci

Italia

+39 0571 7091 Tel. +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

> Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

(FI)

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

### **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

### Hazard classification and indication:

zara ciassilication and indication.		
Flammable liquid, category 3	H226	Flammable liquid and vapour.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Acute toxicity, category 4	H302	Harmful if swallowed.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure,	H373	May cause damage to organs through prolonged or
category 2		repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H411	Toxic to aquatic life with long lasting effects.
toxicity, category 2		

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### SECTION 2. Hazards identification .../>>

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:









Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour.
H351 Suspected of causing cancer.
H302 Harmful if swallowed.

**H304** May be fatal if swallowed and enters airways.

**H373** May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains: L - alpha - pinen

Malaleuca alternifolia extract

terpinolen (-)-Pin-2(10)-Ene Eugenol Alpha-Pinene

May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .

P370+P378 In case of fire: use . . . to extinguish.
P273 Avoid release to the environment.

**Contains:** 1,2,3,4-tetrahydronaphthalene

TURPENTINE

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Anethole Eucalyptus Oil ROSIN

(R)-P-MENTHA-1,8-DIENE Eucaliptus globulus oil

Eucaliptol Linalool

### 2.3. Other hazards

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

#### FΝ

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### **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. %Classification 1272/2008 (CLP)

**TURPENTINE** 

CAS 8006-64-2  $9 \le x < 10$ Flam. Lig. 3 H226. Acute Tox. 4 H302. Acute Tox. 4 H312. Acute Tox. 4 H332.

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Carc. 2 H351, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 2 H411, EUH019

Aquatic Chronic 2 H411

Flam. Sol. 1 H228

EC 232-350-7 INDEX 650-002-00-6 Reg. no. 01-2119553060-53

Au Resinate

CAS  $9 \le x < 25$ 

EC 945-694-4

**INDEX** 

CYCLOHEXANOL

CAS 108-93-0  $5 \le x < 9$ Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

203-630-6 FC INDEX 603-009-00-3

01-2119447488-26-XXXX Reg. no.

1,2,3,4-tetrahydronaphthalene

CAS 119-64-2  $5 \le x < 9$ 

EC 204-340-2

INDEX 601-045-00-4 Reg. no. 01-2119539463-37-XXXX

Synthetic Camphor

CAS 76-22-2 5 ≤ x < 9 Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

STOT SE 3 H335

Skin Sens. 1 H317

Flam. Sol. 1 H228

EC 200-945-0 INDEX

**ROSIN** 

8050-09-7 CAS 1 ≤ x < 5

EC 232-475-7

INDEX 650-015-00-7

01-2119480418-32-XXXX Reg. no.

**Eucalyptus Oil** 

8000-48-4 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411 CAS  $2.5 \le x < 5$ 

EC INDEX Ag Resinate

CAS 68551-38-2 1 ≤ x < 5

FC 271-373-7

INDEX

**ASPHALT** 

12002-43-6 1 ≤ x < 5 CAS

EC INDEX

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

CAS 64742-82-1  $1 \le x < 2.5$ Flam. Liq. 3 H226, STOT RE 1 H372, Asp. Tox. 1 H304, STOT SE 3 H336,

Aquatic Chronic 2 H411, EUH066,

Classification note/notes according to Annex VI to the CLP Regulation: P

Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 919-446-0

INDEX

Reg. no. 01-2119458049-33

Eucaliptus globulus oil

CAS 84625-32-1  $1 \le x < 2,5$ 

EC 283-406-2

**INDEX** 

2119978250-37-0000 Reg. no.

(R)-P-MENTHA-1,8-DIENE

CAS 5989-27-5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,  $1 \le x < 2.5$ 

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1,

Classification note/notes according to Annex VI to the CLP Regulation: C

EC 227-813-5

@EPY 10.4.2 - SDS 1004.13

#### FΝ

### **COLOROBBIA**

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### **SECTION 3. Composition/information on ingredients**

601-029-00-7 INDEX

01-2119529223-47-000 Rea. no.

Eucaliptol

470-82-6 CAS  $1 \le x < 5$ 

EC 207-431-5

INDEX

Reg. no. 01-2119967772-24-0000

Anethole

CAS 104-46-1  $1 \le x < 5$ 

FC 2032055

INDEX

Linalool

CAS 78-70-6  $1 \le x < 5$ 

FC 201-134-4

**INDEX** 

01-2119474016-42-0000 Reg. no.

Decahydronaphthalene

91-17-8  $0.5 \le x < 1$ CAS

FC 202-046-9

INDEX

Reg. no. 01-2119565127-37-XXXX

Alpha-Pinene

80-56-8 CAS

 $0.5 \le x < 1$ Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

201-291-8 FC

INDEX

01-2119519223-49-0000 Reg. no.

Camphene

79-92-5 CAS  $0.25 \le x < 0.5$ 

FC 201-234-8

INDEX

01-2119446293-40-XXXX Reg. no.

Eugenol

CAS 97-53-0  $0 \le x < 0.5$ 

EC INDEX

(-)-Pin-2(10)-Ene

127-91-3 CAS  $0 \le x < 0.5$ 

EC 242-060-2

INDEX

4-METHYLPENTAN-2-ONE

CAS 108-10-1  $0 \le x < 0.5$ 

EC 203-550-1 INDEX 606-004-00-4 01-2119473980-30 Rea no

**DIESEL OIL - not specified** 

CAS 68476-34-6  $0 \le x < 0.5$ 270-676-1

EC INDEX 649-227-00-2

terpinolen

CAS 586-62-9  $0.25 \le x < 0.5$ 

EC 209-578-0

**INDEX** 

FC

01-2119982325-32-XXXX Rea. no.

Malaleuca alternifolia extract

85085-48-9 0 ≤ x < 0,25 CAS

INDEX

**ETHYL ACETATE** 

141-78-6  $0 \le x < 0.5$ CAS

EC 205-500-4 **INDEX** 607-022-00-5 01-2119475103-46 Reg. no.

Flam. Liq. 3 H226, Skin Sens. 1 H317

Skin Sens. 1 H317

Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

Flam. Liq. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314,

Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=10

Flam. Liq. 3 H226, Acute Tox. 4 H302, Asp. Tox. 1 H304, Skin Irrit. 2 H315,

Flam. Sol. 1 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1 H317

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317

Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066

Carc. 2 H351

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

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### \_

L - alpha - pinen

CAS 7785-26-4  $0 \le x < 0.25$ 

**SECTION 3. Composition/information on ingredients** 

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC 232-077-3 INDEX

**CYCLOHEXANONE** 

CAS 108-94-1  $0 \le x < 0.5$ 

Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Eye Dam. 1 H318, Skin Irrit. 2 H315

EC 203-631-1 INDEX 606-010-00-7 Reg. no. 01-2119453616-35

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

### **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

### **SECTION 6. Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent

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### SECTION 6. Accidental release measures .../>>

any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

### 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
		kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
		implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
	· ·	protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a
		agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZADZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12
		czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006
		privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției
		lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju
O 111	Cioronija	delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
		delayees pred tregariji zaradi izpostavijenosti kemidilim snovem pri delu

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### **SECTION 8. Exposure controls/personal protection**

TUR Türkiye 12.08.2013 Tarihli, 28733 Sayılı, Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri

Hakkında Yönetmelik **GBR** United Kingdom EH40/2005 Workplace exposure limits (Third edition, published 2018)

OEL EU Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) ΕU 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive

2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH ACGIH 2020

	TURPENTINE											
Threshold Limit \	Threshold Limit Value											
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
TLV	BGR	300										
TLV	CZE	300		800								
VLA	ESP	113	20									
VLEP	FRA	560	100									
TLV	GRC	560	100	840	150							
TGG	NLD	560										
NDS/NDSCh	POL	112		300								
TLV	ROU	400		500		SKIN						
MV	SVN	560	100	560	100	SKIN						
WEL	GBR	566	100	850	150							
TLV-ACGIH		111	20									

	CYCLOHEXANOL											
Threshold Limit \	/alue											
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
TLV	BGR	200										
TLV	CZE	200	48	400	94	SKIN						
VLA	ESP	208	50			SKIN						
VLEP	FRA	200	50	300	75							
TLV	GRC	200	50									
TGG	NLD		1									
NDS/NDSCh	POL	10				SKIN						
TLV	ROU	100	25	200	50	SKIN						
MV	SVN	210	50	840	200	SKIN						
WEL	GBR	208	50									
TLV-ACGIH		205	50			SKIN						

	1,2,3,4-tetrahydronaphthalene										
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15min	Remarks / Observations						
<b>7</b> F	, <b>,</b>	mg/m3	ppm	mg/m3 ppm							
TLV-ACGIH		50	• • • • • • • • • • • • • • • • • • • •								

	Synthetic Camphor										
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15min		Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV-ACGIH		13	2	19	3						

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				F	OSIN				
reshold Limit Val	ue								
Type	Country	TWA/8h		STEL/15	min	Remarks / 0	Observations		
	,	mg/m3	ppm	mg/m3	ppm				
TLV	CZE	1			• •	INHAL			
TLV	ROU	0,1							
WEL	GBR	0.05		0,15					
TLV-ACGIH		0,001		,		INHAL			
redicted no-effect	concentra	tion - PNEC	;						
Normal value in fr	esh water						0,002	mg/l	
Normal value in m	narine water	r					0,0002	mg/l	
Normal value for f	resh water	sediment				0,007	mg/kg/d		
Normal value for r	marine wate	er sediment					0,001	mg/kg/d	
Normal value of S	TP microor	anisms					1000	mg/l	
Normal value for t			nent				0,00031	mg/kg/d	
ealth - Derived no-							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3 3	
	Effec	ts on consu	mers			Effects on wo	rkers		
Route of exposure				Chronic	Chronic	Acute	Acute	Chronic	Chronic
•	local	sys	emic	local	systemic	local	systemic	local	systemic
Oral		,			1,065		,		,
					mg/kg bw/d				
Inhalation					3 3			10	
								mg/m3	
Skin					1,065			<b>U</b>	2,131
-					mg/kg bw/d				mg/kg
					33				bw/d

				AS	PHALT		
<b>Threshold Limit</b>	Value						
Туре	Country	TWA/8h	TWA/8h		min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH		5					

	Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)										
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV-ACGIH			100								

				(R)-P-MEN	THA-1,8-DI	ENE					
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
AGW	DEU	28	5	112	20	SKIN					
MAK	DEU	28	5	112	20	SKIN					
VLA	ESP	168	30			SKIN					
MV	SVN	28	5	112	20	SKIN					

	Decahydronaphthalene									
Threshold Limit Value										
Type	Country	TWA/8h		STEL/15min		Remarks / Observations				
		mg/m3	ppm	mg/m3 ppm						
TLV-ACGIH		100								

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				4-METHYLF	PENTAN-2-0	ONE	
Threshold Limit \	/alue						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	50		200			
TLV	CZE	80	19,2	200	48	SKIN	
AGW	DEU	83	20	166	40	SKIN	
MAK	DEU	83	20	166	40	SKIN	
VLA	ESP	83	20	208	50		
VLEP	FRA	83	20	208	50		
TLV	GRC	410	100	410	100		
VLEP	ITA	83	20	208	50		
TGG	NLD	104		208			
VLE	PRT	83	20	208	50		
NDS/NDSCh	POL	83		200			
TLV	ROU	83	20	208	50		
MV	SVN	83	20	208	50	SKIN	
ESD	TUR	83	20	208	50		
WEL	GBR	208	50	416	100	SKIN	
OEL	EU	83	20	208	50		
TLV-ACGIH		82	20	307	75		

				ETHYL	ACETATE				
reshold Limit \	/alue								
Type	Country	TWA/8h		STEL/15	min	Remarks / 0	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	734	200	1468	400				
TLV	CZE	700	191,1	900	245,7				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	734	200	1468	400				
TLV	GRC	734	200	1468	400				
TGG	NLD	734		1468					
VLE	PRT	734	200	1468	400				
NDS/NDSCh	POL	734		1468					
TLV	ROU	400	111	500	139				
MV	SVN	734	200	1468	400				
WEL	GBR	734	200	1468	400				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
redicted no-effe		ation - PNE	C						
Normal value in	fresh water						0,26	mg/l	
Normal value in	marine wate	er					0,026	mg/l	
Normal value for	or fresh water	sediment					1,25	mg/kg	
Normal value for	or marine wat	er sediment	İ				0,125	mg/kg	
Normal value o	f STP microo	rganisms					650	mg/l	
Normal value for	or the food ch	ain (second	ary poisonii	ng)			0,2	g/Kg	
Normal value for	or the terrestr	ial compartr	nent				0,24	mg/kg	
lealth - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consi	umers			Effects on wo	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	stemic	local	systemic	local	systemic	local	systemic
Oral				VND	4,5				
					mg/kg				
Inhalation	734	73	4	VND	367	1468	1468	734	734
	mg/ı	m3 mg	/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin				VND	37	-	-	VND	63
					mg/kg				mg/kg

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### SECTION 8. Exposure controls/personal protection ....

				CYCLO	HEXANON	NE	
Threshold Limit \	/alue						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	40,8	10	81,6	20	SKIN	
TLV	CZE	40	9,8	80	196	SKIN	
AGW	DEU	80	20	80	20	SKIN	
VLA	ESP	41	10	82	20	SKIN	
VLEP	FRA	40,8	10	81,6	20		
TLV	GRC	200	50	400	100		
VLEP	ITA	40,8	10	81,6	20	SKIN	
TGG	NLD			50		SKIN	
VLE	PRT	40,8	10	81,6	20	SKIN	
NDS/NDSCh	POL	40		80		SKIN	
TLV	ROU	40,8	10	81,6	20	SKIN	
MV	SVN	40,8	10	81,6	20	SKIN	
ESD	TUR	40,8	10	81,6	20	SKIN	
WEL	GBR	41	10	82	20	SKIN	
OEL	EU	40,8	10	81,6	20	SKIN	
TLV-ACGIH		80	20	201	50	SKIN	

#### Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9. Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Properties Value Information

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### SECTION 9. Physical and chemical properties ..../>

Appearance liquid Colour brown Odour characteristic Odour threshold Not available Not applicable Melting point / freezing point Not available Not available Initial boiling point Not available Boiling range 31 T≤36 Flash point °C Evaporation Rate Not available Flammability of solids and gases Not available Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Vapour density Not available Relative density Not available Solubility insoluble in water Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not applicable Decomposition temperature Not available Viscosity 40 - 45 cP

9.2. Other information

Explosive properties

Oxidising properties

VOC (Directive 2010/75/EC): 32,05 %

### **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

Not available

Not available

#### **TURPENTINE**

Dissolves rubber.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Stable in normal conditions of use and storage.

4-METHYLPENTAN-2-ONE

Reacts violently with: light metals. Attacks various types of plastic materials.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

#### **CYCLOHEXANONE**

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

#### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

#### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

#### **TURPENTINE**

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid. fluorine.

In oxygen atmospheres it generates explosive peroxides.

### **CYCLOHEXANOL**

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals,chromium trioxide. Forms explosive mixtures with: air.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Avoid contact with: strong oxidising agents.

May form explosive mixtures with: strong oxidising agents, chlorates, perchlorates, liquid oxygen.

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### SECTION 10. Stability and reactivity .../>>

Fire hazard.

4-METHYLPENTAN-2-ONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

**ETHYL ACETATE** 

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

CYCLOHEXANONE

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

### 10.4. Conditions to avoid

Avoid overheating.

CYCLOHEXANOL

Avoid exposure to: sources of heat,naked flames.

4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

#### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

CYCLOHEXANOL

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Incompatible with: acids,bases,strong oxidants,nitrates,chlorosulphuric acid,aluminium.Incompatible materials: plastic materials.

4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

**TURPENTINE** 

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

1,2,3,4-tetrahydronaphthalene

Informazioni riferite al 1,2,3,4-tetraidronaftalene:

LD50 orale ratto : 2860 mg/Kg LD50 pelle coniglio: 16710 mg/Kg Pelle : moderatamente irritante

Non sensibilizzante Occhi : non irritante.

Eugenol

Informazioni riferite all'eugenolo: LD50 orale ratto 2650 mg/Kg LD50 dermale coniglio 5000 mg/Kg.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

#### ΕN

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### SECTION 11. Toxicological information .../>>

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

NOAEL: 300 mg/Kg (cronic, oral, male animal, 2 years); LOAEC (inhalation, vapour, 90 dyes): 345 ppm; NOAEC(inhalation, rat, vapour): 300 mg/m3; NOAEL (oral, rat, 90 dyes): >= 495 mg/Kg; NOAEC (inhalation, rat, vapour, 90 dyes): 690 ppm; NOAEL (subacute, oral, female animal, 28 dyes): 1056 mg/Kg.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: 1785,71 mg/kg
ATE (Dermal) of the mixture: >200 mg/kg

**TURPENTINE** 

LD50 (Oral) 5760 mg/kg Rat

4-METHYLPENTAN-2-ONE

 LD50 (Oral)
 2080 mg/kg Rat

 LD50 (Dermal)
 > 16000 mg/kg Rabbit

 LC50 (Inhalation)
 > 8,2 mg/l/4h Rat

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%) LD50 (Oral) > 15000 mg/kg Rat LD50 (Dermal) > 4 ml/Kg Rat

### SKIN CORROSION / IRRITATION

Causes skin irritation

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin May produce an allergic reaction. Contains: L - alpha - pinen Malaleuca alternifolia extract terpinolen (-)-Pin-2(10)-Ene Eugenol

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Alpha-Pinene

Suspected of causing cancer

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

### STOT - REPEATED EXPOSURE

May cause damage to organs

EPY 10.4.2 - SDS 1004.13

### EN

### **COLOROBBIA**

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### **SECTION 11. Toxicological information** .../>>

ASPIRATION HAZARD

Toxic for aspiration

### **SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

### 12.1. Toxicity

(R)-P-MENTHA-1,8-DIENE

LC50 - for Fish 35 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 69,6 mg/l/48h Daphnia pulex

### 12.2. Persistence and degradability

#### **TURPENTINE**

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

**TURPENTINE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

**ROSIN** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

(R)-P-MENTHA-1,8-DIENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

CYCLOHEXANOL

Solubility in water 36000 mg/l

Rapidly degradable

4-METHYLPENTAN-2-ONE

Solubility in water > 10000 mg/l

Rapidly degradable

CYCLOHEXANONE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

#### 12.3. Bioaccumulative potential

ROSIN

Partition coefficient: n-octanol/water 3 BCF 56,23

(R)-P-MENTHA-1,8-DIENE

Partition coefficient: n-octanol/water 4,38 BCF 1022

CYCLOHEXANOL

Partition coefficient: n-octanol/water 1,25

#### ΕN

### **COLOROBBIA**

## COLOROBBIA ITALIA S.P.A.

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### SECTION 12. Ecological information ..../>>

4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water 1,9

CYCLOHEXANONE

Partition coefficient: n-octanol/water 0,86

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 BCF 30

12.4. Mobility in soil

**ROSIN** 

Partition coefficient: soil/water 3,7289

4-METHYLPENTAN-2-ONE

Partition coefficient: soil/water 2.008

CYCLOHEXANONE

Partition coefficient: soil/water 1,18

#### 12.5. Results of PBT and vPvB assessment

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

#### 12.6. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

### 14.1. UN number

ADR / RID, IMDG, IATA: 1263

### 14.2. UN proper shipping name

ADR / RID: PAINT OF PAINT RELATED MATERIAL

IMDG: PAINT OF PAINT RELATED MATERIAL (TURPENTINE)

IATA: PAINT or PAINT RELATED MATERIAL

#### E١

### **COLOROBBIA**

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### SECTION 14. Transport information .../>>

### 14.3. Transport hazard class(es)

ADR / RID:

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

Class: 3

Label: 3



### 14.4. Packing group

ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID:

**Environmentally Hazardous** 

IMDG:

Marine Pollutant

IATA:

NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

### 14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 30

Limited Quantities: 5 L

Tunnel restriction code: (D/E)

IMDG:

Special provision: -EMS: F-E, <u>S-E</u>

Limited Quantities: 5 L Maximum quantity: 220 L

Pass.:

Maximum quantity: 60 L

Packaging instructions: 366 Packaging instructions: 355

Special provision: A3, A72, A192

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Cargo:

Information not relevant

### **SECTION 15. Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC:

P5c-E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point

3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

EPY 10.4.2 - SDS 1004.13

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### **SECTION 15. Regulatory information**

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flammable liquid, category 2 Flam. Lig. 2 Flammable liquid, category 3 Flam. Liq. 3 Flam. Sol. 1 Flammable solid, category 1 Carc. 2 Carcinogenicity, category 2 Acute Tox. 3 Acute toxicity, category 3 Acute toxicity, category 4 Acute Tox. 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B Skin corrosion, category 1B Eve Dam. 1 Serious eye damage, category 1 Eye Irrit. 2 Eye irritation, category 2 Skin irritation, category 2 Skin Irrit. 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin sensitization, category 1 Skin Sens 1 Skin Sens. 1B Skin sensitization, category 1B

Hazardous to the aquatic environment, acute toxicity, category 1 Aquatic Acute 1 **Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity, category 1 **Aquatic Chronic 2** Hazardous to the aquatic environment, chronic toxicity, category 2

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H228 Flammable solid. Suspected of causing cancer. H351 H331 Toxic if inhaled.

H302 Harmful if swallowed H312 Harmful in contact with skin. H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

May cause damage to organs through prolonged or repeated exposure. H373

Causes severe skin burns and eye damage. H314

H318 Causes serious eye damage. H319 Causes serious eye irritation. Causes skin irritation. H315 May cause respiratory irritation. H335

May cause an allergic skin reaction. H317 H336 May cause drowsiness or dizziness. Very toxic to aquatic life.

H400

Very toxic to aquatic life with long lasting effects. H410 H411 Toxic to aquatic life with long lasting effects.

**EUH019** May form explosive peroxides.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%

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### SECTION 16. Other information .../>>

- IMDG: International Maritime Code for dangerous goods- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Regulation (EU) 2020/217 (XIV Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

# COLOROBBIA ITALIA S.P.A. LRP--000010 - Lustro Bronzo

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**SECTION 16. Other information** .../>>

The following sections were modified:
08 / 11 / 12.

# COLOROBBIA ITALIA S.P.A.

### LRP--000041 - Lustro Rame

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### **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: LRP--000041
Product name Lustro Rame

Prodotto metallo-organico per decorazione al terzo fuoco

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use third firing decoration in the glass/ceramics/porcelain sectors

#### 1.3. Details of the supplier of the safety data sheet

Name COLOROBBIA ITALIA S.P.A.

Full address via Pietramarina 53

District and Country 50053 Sovigliana - Vinci (FI)

Italia

Tel. +39 0571 7091 Fax +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

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Flammable liquid, category 3	H226	Flammable liquid and vapour.
Acute toxicity, category 4	H302	Harmful if swallowed.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very toxic to aquatic life with long lasting effects.

### **COLOROBBIA ITALIA S.P.A.**

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### **SECTION 2. Hazards identification**

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:









.../>>

Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

May cause damage to organs through prolonged or repeated exposure. H373

H319 Causes serious eye irritation. H315 Causes skin irritation.

May cause respiratory irritation. H335 May cause an allergic skin reaction. H317

H410 Very toxic to aquatic life with long lasting effects.

**EUH208** Contains: L - alpha - pinen

terpinolen

Eugenol

Malaleuca alternifolia extract

(-)-Pin-2(10)-Ene DIPENTÈNE

May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do NOT induce vomiting. P331

P280 Wear protective gloves/ protective clothing / eye protection / face protection. IF SWALLOWED: immediately call a POISON CENTER / doctor / . . . P301+P310

P370+P378 In case of fire: use . . . to extinguish. P273 Avoid release to the environment.

Contains: **TURPENTINE** 

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Anethole Eucalyptus Oil Alpha-Pinene

(R)-P-MENTHA-1,8-DIENE Eucaliptus globulus oil

Eucaliptol Linalool

#### 2.3. Other hazards

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

### **SECTION 3. Composition/information on ingredients**

#### FΝ

### **COLOROBBIA**

### **COLOROBBIA ITALIA S.P.A.**

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### **SECTION 3. Composition/information on ingredients**

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**Synthetic Camphor** 

CAS 76-22-2  $10 \le x < 20$ Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

STOT SE 3 H335

200-945-0 FC

INDEX

**TURPENTINE** 

CAS 8006-64-2  $10 \le x < 25$ Flam. Lig. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

Aquatic Chronic 2 H411

EC 232-350-7 INDEX 650-002-00-6

01-2119553060-53 Rea. no.

**Eucalyptus Oil** 

8000-48-4 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411 CAS  $5 \le x < 9$ 

EC INDEX

Eucaliptus globulus oil

84625-32-1  $2.5 \le x < 5$ CAS

283-406-2 EC

INDEX

Reg. no. 2119978250-37-0000

Linalool

CAS 78-70-6 1 ≤ x < 5

FC. 201-134-4

INDEX

01-2119474016-42-0000 Reg. no.

Eucaliptol

470-82-6 CAS  $1 \le x < 5$ 

EC

207-431-5

INDEX Reg. no. 01-2119967772-24-0000

Decahydronaphthalene

CAS 91-17-8  $1 \le x < 2.5$ 

Flam. Lig. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314,

Flam. Liq. 3 H226, Skin Sens. 1 H317

Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=10

Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

EC 202-046-9

**INDEX** 

01-2119565127-37-XXXX Reg. no.

(R)-P-MENTHA-1,8-DIENE

CAS 5989-27-5  $1 \le x < 2.5$ Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1,

Classification note according to Annex VI to the CLP Regulation: C

FC 227-813-5 INDEX 601-029-00-7

01-2119529223-47-000 Reg. no.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

CAS 64742-82-1  $1 \le x < 2,5$ Flam. Liq. 3 H226, STOT RE 1 H372, Asp. Tox. 1 H304, STOT SE 3 H336,

Aquatic Chronic 2 H411, EUH066,

Classification note according to Annex VI to the CLP Regulation: P

EC 919-446-0

**INDEX** 

01-2119458049-33

Reg. no. Anethole

104-46-1  $1 \le x < 5$ 

CAS EC 2032055

Skin Sens. 1 H317

INDFX

**CYCLOHEXANOL** 

108-93-0 CAS  $1 \le x < 5$ 

EC 203-630-6

INDEX 603-009-00-3

Reg. no. 01-2119447488-26-XXXX Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

#### FΝ

### **COLOROBBIA**

### COLOROBBIA ITALIA S.P.A.

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Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319

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### **SECTION 3. Composition/information on ingredients**

**BENZYL ALCOHOL** 

CAS 100-51-6 1 ≤ x < 5

EC 202-859-9 INDEX 603-057-00-5

01-2119492630-38-0000 Reg. no.

Alpha-Pinene

CAS 80-56-8 1 ≤ x < 5

EC 201-291-8

INDEX

01-2119519223-49-0000 Reg. no.

4-METHYLPENTAN-2-ONE

CAS 108-10-1  $0.5 \le x < 1$ 

203-550-1 EC INDEX 606-004-00-4 01-2119473980-30 Reg. no.

Camphene

CAS 79-92-5  $0.5 \le x < 1$ 

EC 201-234-8

INDEX

01-2119446293-40-XXXX Reg. no.

**DIPENTENE** 

CAS

138-86-3 Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1,  $0.5 \le x < 1$ 

Aquatic Chronic 1 H410 M=1,

Aquatic Chronic 1 H410 M=1

Classification note according to Annex VI to the CLP Regulation: C

Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1 H317

Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Flam. Sol. 1 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1,

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317

Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066

FC 205-341-0 INDEX 601-029-00-7

(-)-Pin-2(10)-Ene

127-91-3 CAS  $0.5 \le x < 1$ 

EC 242-060-2

INDEX

Malaleuca alternifolia extract

CAS 85085-48-9  $0.25 \le x < 0.5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC **INDEX** Eugenol

CAS

97-53-0  $0 \le x < 0.5$ 

EC INDEX terpinolen

CAS 586-62-9  $0.25 \le x < 0.5$ 

EC 209-578-0

INDEX

Reg. no. 01-2119982325-32-XXXX

L - alpha - pinen

CAS 7785-26-4  $0 \le x < 0.25$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

Aquatic Chronic 1 H410 M=1 232-077-3

EC INDEX

**ETHYL ACETATE** 

141-78-6 CAS  $0 \le x < 0.5$ 

EC 205-500-4 INDEX 607-022-00-5 01-2119475103-46 Reg. no.

CYCLOHEXANONE

108-94-1  $0 \le x < 0.5$ CAS

Flam. Lig. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

Eye Dam. 1 H318, Skin Irrit. 2 H315

EC 203-631-1 606-010-00-7 INDEX Reg. no. 01-2119453616-35

TOLUENE

CAS 108-88-3  $0 \le x < 0.5$  Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373,

Skin Irrit. 2 H315, STOT SE 3 H336

203-625-9 EC INDEX 601-021-00-3

The full wording of hazard (H) phrases is given in section 16 of the sheet.

@EPY 9.10.6 - SDS 1004.13

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### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

### 5.3. Advice for firefighters

### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

### **SECTION 6. Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb

# COLOROBBIA ITALIA S.P.A. LRP--000041 - Lustro Rame

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### SECTION 6. Accidental release measures ..../>

the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

### 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 (Fassung 07.06.2018) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2008 NIPO: 211-08-011-5
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 04.06.2015 (1602) - Pravilnik o spremembah in dopolnitvah
0111	Ciovornja	Pravilnika o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
TUR	Türkiye	KİMYASAL MADDELERLE ÇALIŞMALARDA SAĞLIK VE GÜVENLİK ÖNLEMLERİ HAKKINDA YÖNETMELİK - Resmi Gazete Tarihi: 12.08.2013 Resmi Gazete Sayısı: 28733
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

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### **SECTION 8. Exposure controls/personal protection**

				Synthet	tic Camphor		
Threshold Limi	t Value			_			
Type	Country	TWA/8h		STEL/15	min		
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH		13	2	19	3		

				TUR	PENTINE		
Threshold Limit V	/alue						
Туре	Country	TWA/8h		STEL/15	min		
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	300					
TLV	CZE	300	54	800	144		
VLA	ESP	113	20				
VLEP	FRA	560	100				
WEL	GBR	566	100	850	150		
TLV	GRC	560	100	840	150		
TGG	NLD	560					
NDS/NDSCh	POL	112		300			
TLV	ROU	400		500		SKIN	
MV	SVN	560	100	560	100	SKIN	
TLV-ACGIH		111	20				

				Decahydro	onaphthalene
<b>Threshold Limit</b>	Value				
Type	Country	TWA/8h		STEL/15r	min
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		100			

				(R)-P-MEN	ΓHA-1,8-DI	ENE	
Threshold Lim	it Value			, ,	•		
Type	Country	TWA/8h		STEL/15r	min		
		mg/m3	ppm	mg/m3	ppm		
MAK	DEU	28	5	112	20	SKIN	
VLA	ESP	168	30			SKIN	

	I	Hydrocarbon	s, C9-C12 n	alkanes, ISC	DALCANI, CYCLIC, AROMATIC (2-25%)
<b>Threshold Limit</b>	Value				
Type	Country	TWA/8h		STEL/15	min
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH			100		

				BENZYI	L ALCOHOL	-		
Threshold Limit V	/alue							
Type	Country	TWA/8h		STEL/15	min			
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	5						
TLV	CZE	40	9,04	80	18,08			
AGW	DEU	22	5	44	10	SKIN	11	
NDS/NDSCh	POL	240						

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SECTION 8. Exposure controls/personal protection ..../

				CYCLO	HEXANOL		
eshold Limit \	/alue			01020	TILXAITOL		
Гуре	Country	TWA/8h		STEL/15r	min		
. , , , ,	Country	mg/m3	ppm	mg/m3	ppm		
ΓLV	BGR	200	PP	9	P P · · ·		
ΓLV	CZE	200	48,8	400	97,6	SKIN	
/LA	ESP	208	50			SKIN	
/LEP	FRA	200	50	300	75		
VEL	GBR	208	50				
LV	GRC	200	50				
GG	NLD		1				
DS/NDSCh	POL	10				SKIN	
.V	ROU	100	25	200	50	SKIN	
V	SVN	210	50	840	200	SKIN	
_V-ACGIH		205	50			SKIN	

				4-METHYLP	PENTAN-2	-ONE					
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15r	min						
		mg/m3	ppm	mg/m3	ppm						
TLV	BGR	50		200							
TLV	CZE	80	19,52	200	48,8	SKIN					
AGW	DEU	83	20	166	40	SKIN					
MAK	DEU	83	20	166	40	SKIN					
VLA	ESP	83	20	208	50						
VLEP	FRA	83	20	208	50						
WEL	GBR	208	50	416	100	SKIN					
TLV	GRC	410	100	410	100						
VLEP	ITA	83	20	208	50						
TGG	NLD	104		208							
NDS/NDSCh	POL	83		200							
VLE	PRT	83	20	208	50						
MV	SVN	83	20	207,5	50						
ESD	TUR	83	20	208	50						
OEL	EU	83	20	208	50						
TLV-ACGIH		82	20	307	75						

Threshold Limit Value

Type

TLV

TLV

AGW MAK

VLA VLEP

WEL

TLV

**VLEP** 

TGG NDS/NDSCh

VLE

TLV

MV

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**SECTION 8. Exposure controls/personal protection** 

POL PRT

ROU

SVN

200

111

400

734

400

1400

			ETHYL	ACETAT		
alue						
Country	TWA/8h		STEL/15r	STEL/15min		
	mg/m3	ppm	mg/m3	ppm		
BGR	734	200	1468	400		
CZE	700	194,6	900	250,2		
DEU	730	200	1460	400		
DEU	750	200	1500	400		
ESP	734	200	1468	400		
FRA	1400	400				
GBR	734	200	1468	400		
GRC	734	200	1468	400		
ITA	734	200	1468	400		
NLD	734		1468			
POL	734		1468			

OEL	EU	734	200	1468	400		
TLV-ACGIH		1441	400				
Predicted no-effect	ct concentra	tion - PNEC					
Normal value in	fresh water					0,26	mg/l
Normal value in	marine water	r				0,026	mg/l
Normal value fo	r fresh water	sediment				1,25	mg/kg
Normal value fo	r marine wate	er sediment				0,125	mg/kg
Normal value of	STP microor	ganisms				650	mg/l
Normal value fo	r the food cha	ain (secondar	y poisoning)			0,2	g/Kg
Normal value fo	r the terrestri	al compartme	ent			0.24	ma/ka

400

139

400

1468

500

1400

Normal value for the	terrestrial co	mpartment				0,24	mg/kg			
Health - Derived no-eff	ect level - D	NEL / DMEL								
	Effects or	n consumers			Effects on w	Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic		
	local	systemic	local	systemic	local	systemic	local	systemic		
Oral			VND	4,5						
				mg/kg						
Inhalation	734	734	VND	367	1468	1468	734	734		
	mg/m3	mg/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3		
Skin			VND	37			VND	63		
				mg/kg				mg/kg		

				TO	LUENE		
Threshold Limit V	/alue						
Туре	Country	TWA/8h		STEL/15r	min		
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	192	50	384	100	SKIN	
TLV	CZE	200	53,2	500	133	SKIN	
AGW	DEU	190	50	760	200	SKIN	
MAK	DEU	190	50	760	200	SKIN	
VLA	ESP	192	50	384	100	SKIN	
VLEP	FRA	76,8	20	384	100	SKIN	
WEL	GBR	191	50	384	100	SKIN	
TLV	GRC	192	50	384	100		
VLEP	ITA	192	50			SKIN	
TGG	NLD	150		384			
NDS/NDSCh	POL	100		200		SKIN	
VLE	PRT	192	50	384	100	SKIN	
TLV	ROU	192	50	384	100	SKIN	
MV	SVN	192	50	384	100	SKIN	
OEL	EU	192	50	384	100	SKIN	
TLV-ACGIH		75,4	20				

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### SECTION 8. Exposure controls/personal protection

				CYCLO	HEXANONI		
Threshold Limit V	/alue						
Туре	Country	TWA/8h		STEL/15r	min		
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	40,8	10	81,6	20	SKIN	
TLV	CZE	40	9,96	80	19,92	SKIN	
AGW	DEU	80	20	80	20	SKIN	
VLA	ESP	41	10	82	20	SKIN	
VLEP	FRA	40,8	10	81,6	20		
WEL	GBR	41	10	82	20	SKIN	
TLV	GRC	200	50	400	100		
VLEP	ITA	40,8	10	81,6	20	SKIN	
TGG	NLD			50		SKIN	
NDS/NDSCh	POL	40		80		SKIN	
VLE	PRT	40,8	10	81,6	20	SKIN	
TLV	ROU	40,8	10	81,6	20	SKIN	
MV	SVN	40,8	10	81,6	20	SKIN	
ESD	TUR	40,8	10	81,6	20	SKIN	
OEL	EU	40,8	10	81,6	20	SKIN	
TLV-ACGIH		80	20	201	50	SKIN	

#### Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9. Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Properties Value Information

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°C

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### **SECTION 9. Physical and chemical properties**

Appearance liquid Colour Not available Odour characteristic Odour threshold Not available Not available Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available 39 T≤45 Flash point

Evaporation Rate Not available Flammability of solids and gases Not available Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Not available Vapour pressure Vapour density Not available Not available Relative density Solubility insoluble in water Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not applicable Not available Decomposition temperature Viscosity Not available Explosive properties Not available Oxidising properties Not available

9.2. Other information

VOC (Directive 2010/75/EC): 12,52 %

### **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

#### TURPENTINE

Dissolves rubber.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Stable in normal conditions of use and storage.

BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

4-METHYLPENTAN-2-ONE

Reacts violently with: light metals. Attacks various types of plastic materials.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

Avoid exposure to: light.

CYCLOHEXANONE

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

#### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

### **TURPENTINE**

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid.fluorine.

In oxygen atmospheres it generates explosive peroxides.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%) Avoid contact with: strong oxidising agents.

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### **SECTION 10. Stability and reactivity**

May form explosive mixtures with: strong oxidising agents, chlorates, perchlorates, liquid oxygen.

Fire hazard.

BENZYL ALCOHOL

May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid. Risk of explosion on contact with: phosphorus trichloride.

CYCLOHEXANOL

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals, chromium trioxide. Forms explosive mixtures with: air.

4-METHYLPENTAN-2-ONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

**TOLUENE** 

Risk of explosion on contact with: fuming sulphuric acid.nitric acid.silver perchlorate.nitrogen dioxide.non-metal halogenates.acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

CYCLOHEXANONE

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with air

### 10.4. Conditions to avoid

Avoid overheating

BENZYL ALCOHOL

Avoid exposure to: air, sources of heat, naked flames.

CYCLOHEXANOL

Avoid exposure to: sources of heat naked flames.

4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Incompatible with: acids,bases,strong oxidants,nitrates,chlorosulphuric acid,aluminium.Incompatible materials: plastic materials.

BENZYL ALCOHOL

Incompatible with: sulphuric acid,oxidising substances,aluminium.

CYCLOHEXANOL

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

**ETHYL ACETATE** 

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

**TURPENTINE** 

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

### SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Fugenol

Informazioni riferite all'eugenolo:

LD50 orale ratto 2650 mg/Kg

LD50 dermale coniglio 5000 mg/Kg.

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### SECTION 11. Toxicological information .../>>

Eugenol

Informazioni riferite all'eugenolo: LD50 orale ratto 2650 mg/Kg LD50 dermale coniglio 5000 mg/Kg.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

**TOLUENE** 

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

NOAEL: 300 mg/Kg (cronic, oral, male animal, 2 years); LOAEC (inhalation, vapour, 90 dyes): 345 ppm; NOAEC(inhalation, rat, vapour): 300 mg/m3; NOAEL (oral, rat, 90 dyes): >= 495 mg/Kg; NOAEC (inhalation, rat, vapour, 90 dyes): 690 ppm; NOAEL (subacute, oral, female animal, 28 dyes): 1056 mg/Kg.

**TOLUENE** 

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

### Interactive effects

**TOLUENE** 

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

#### ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: 960,94 mg/kg LD50 (Dermal) of the mixture: >2000 mg/kg

TURPENTINE

LD50 (Oral) 5760 mg/kg Rat

**TOLUENE** 

LD50 (Oral) 5580 mg/kg Rat 12124 mg/kg Rabbit LD50 (Dermal) 28,1 mg/l/4h Rat LC50 (Inhalation)

BENZYL ALCOHOL

1230 mg/kg Rat LD50 (Oral) 2000 mg/kg Rabbit LD50 (Dermal) LC50 (Inhalation) > 4,1 mg/l/4h Rat

4-METHYLPENTAN-2-ONE

LD50 (Oral) 2080 mg/kg Rat LD50 (Dermal) > 16000 mg/kg Rabbit LC50 (Inhalation) > 8,2 mg/l/4h Rat

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%) > 15000 mg/kg Rat LD50 (Oral) LD50 (Dermal) > 4 ml/Kg Rat

#### SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

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### SECTION 11. Toxicological information .../>>

Causes serious eye irritation

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin May produce an allergic reaction. Contains: L - alpha - pinen terpinolen Eugenol Malaleuca alternifolia extract

(-)-Pin-2(10)-Ene **DIPENTENE** 

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC,

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

May cause respiratory irritation

### STOT - REPEATED EXPOSURE

May cause damage to organs

#### ASPIRATION HAZARD

Toxic for aspiration

### SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity

(R)-P-MENTHA-1,8-DIENE

35 mg/l/96h Oncorhynchus mykiss LC50 - for Fish EC50 - for Crustacea 69,6 mg/l/48h Daphnia pulex

**DIPENTENE** 

80 mg/l/96h Oncorhynchus mykiss LC50 - for Fish EC50 - for Crustacea 17 mg/l/48h Daphnia magna

### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

#### ΕN

### **COLOROBBIA**

### **COLOROBBIA ITALIA S.P.A.**

### LRP--000041 - Lustro Rame

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### **SECTION 12. Ecological information**

#### **TURPENTINE**

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

**TURPENTINE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

(R)-P-MENTHA-1,8-DIENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

**TOLUENE** 

Solubility in water 100 - 1000 mg/l

Rapidly degradable

**DIPENTENE** 

NOT rapidly degradable

CYCLOHEXANOL

Solubility in water 36000 mg/l

Rapidly degradable

BENZYL ALCOHOL Rapidly degradable

4-METHYLPENTAN-2-ONE

Solubility in water > 10000 mg/l

Rapidly degradable

**CYCLOHEXANONE** 

0,1 - 100 mg/l Solubility in water

Rapidly degradable

ETHYL ACETATE

> 10000 mg/l Solubility in water

Rapidly degradable

### 12.3. Bioaccumulative potential

(R)-P-MENTHA-1,8-DIENE

Partition coefficient: n-octanol/water 4,38 BCF 1022

**TOLUENE** 

Partition coefficient: n-octanol/water 2.73 **BCF** 90

DIPENTENE

Partition coefficient: n-octanol/water 4,5

CYCLOHEXANOL

1,25 Partition coefficient: n-octanol/water

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1,1

4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water 1,9

CYCLOHEXANONE

0.86 Partition coefficient: n-octanol/water

### **COLOROBBIA**

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#### **SECTION 12. Ecological information**

ETHYL ACETATE

0,68 Partition coefficient: n-octanol/water **BCF** 30

12.4. Mobility in soil

4-METHYLPENTAN-2-ONE

Partition coefficient: soil/water 2,008

CYCLOHEXANONE

Partition coefficient: soil/water 1.18

#### 12.5. Results of PBT and vPvB assessment

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

#### 12.6. Other adverse effects

Information not available

#### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

#### **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID. IMDG. IATA:

#### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

IMDG: PAINT or PAINT RELATED MATERIAL (TURPENTINE)

IATA: PAINT or PAINT RELATED MATERIAL

#### 14.3. Transport hazard class(es)

ADR / RID: Label: 3 Class: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



#### 14.4. Packing group

ADR / RID, IMDG, IATA: Ш

## **COLOROBBIA ITALIA S.P.A.**

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#### **SECTION 14. Transport information**

#### 14.5. Environmental hazards

ADR / RID: **Environmentally Hazardous** 

IMDG: Marine Pollutant

IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

#### 14.6. Special precautions for user

HIN - Kemler: 30 ADR / RID: Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special Provision: -

IMDG: EMS: F-E, S-E Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 220 L Packaging instructions: 366 Pass.: Maximum quantity: 60 L Packaging instructions: 355

> Special Instructions: A3, A72, A192

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

#### **SECTION 15. Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c-E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point

Contained substance

48 **TOLUENE** Point

#### Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

#### SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2 Flam. Liq. 3 Flammable liquid, category 3

### **COLOROBBIA**

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#### SECTION 16. Other information .../>>

Flam. Sol. 1 Flammable solid, category 1
Repr. 2 Reproductive toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B
Eye Dam. 1
Serious eye damage, category 1
Eye Irrit. 2
Skin Irrit. 2
Skin Irrit. 2
Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1
Skin Sens. 1B Skin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

**H225** Highly flammable liquid and vapour. **H226** Flammable liquid and vapour.

H228 Flammable solid.

**H361d** Suspected of damaging the unborn child.

H331 Toxic if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

**H372** Causes damage to organs through prolonged or repeated exposure.

**H304** May be fatal if swallowed and enters airways.

**H373** May cause damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds

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## **COLOROBBIA ITALIA S.P.A.**

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#### SECTION 16. Other information .../>>

- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation- WGK: Water hazard classes (German).

#### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

01 / 03 / 08 / 11.

Changed TLVs in section 8.1 for following countries:

CZE,

### COLOROBBIA S.P.A.

### X11--001080 - Oro Brillante 8%

Revision nr.31 Dated 18/09/2020 Printed on 12/10/2020 Page n. 1 / 21

Replaced revision:30 (Dated 14/09/2020)

### **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: X11--001080
Product name Oro Brillante 8%

Prodotto metallo-organico per decorazione al terzo fuoco

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use third firing decoration in the glass/ceramics/porcelain sectors

#### 1.3. Details of the supplier of the safety data sheet

Name COLOROBBIA S.P.A.
Full address via Pietramarina 53
District and Country 50053 Sovigliana - Vinci

.....

Italia

Tel. +39 0571 7091 Fax +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

(FI)

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

#### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

#### Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Acute toxicity, category 4	H302	Harmful if swallowed.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure,	H373	May cause damage to organs through prolonged or
category 2		repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure,	H335	May cause respiratory irritation.
category 3		
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H411	Toxic to aquatic life with long lasting effects.
toxicity, category 2		

### COLOROBBIA S.P.A.

### X11--001080 - Oro Brillante 8%

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#### **SECTION 2. Hazards identification**

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:









Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour. H351 Suspected of causing cancer. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.

Causes skin irritation. H315

May cause respiratory irritation. H335 H317 May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. H411 **EUH208** Contains: L - alpha - pinen

Anethole

Malaleuca alternifolia extract

(-)-Pin-2(10)-Ene Eugenol Alpha-Pinene

May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection. P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .

P370+P378 In case of fire: use . . . to extinguish. P273 Avoid release to the environment.

1,2,3,4-tetrahydronaphthalene Contains:

**TURPENTINE** 

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Synthetic Camphor Lavandin Essential oil Eucalyptus Oil

ROSIN

(R)-P-MENTHA-1,8-DIENE Eucaliptus globulus oil

Eucaliptol Linalool

#### 2.3. Other hazards

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

#### FΝ

### **COLOROBBIA**

## COLOROBBIA S.P.A.

### X11--001080 - Oro Brillante 8%

Printed on 12/10/2020 Page n. 3 / 21

Replaced revision:30 (Dated 14/09/2020)

### **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. %Classification 1272/2008 (CLP)

**Synthetic Camphor** 

CAS 76-22-2  $20 \le x < 25$ Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

EC 200-945-0

INDEX **TURPENTINE** 

CAS 8006-64-2  $10 \le x < 25$ 

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Chronic 2 H411

EC 232-350-7 INDEX 650-002-00-6 01-2119553060-53 Rea. no.

Au Resinate

 $9 \le x < 25$ CAS

EC 945-694-4

INDEX

**CYCLOHEXANOL** 

108-93-0 CAS  $5 \le x < 9$ 

EC 203-630-6 INDEX 603-009-00-3

Reg. no. 01-2119447488-26-XXXX

ROSIN

CAS 8050-09-7 5 ≤ x < 9

FC 232-475-7

INDEX 650-015-00-7

01-2119480418-32-XXXX Reg. no.

**Eucalyptus Oil** 

8000-48-4 CAS  $2.5 \le x < 5$ 

EC

INDEX

1,2,3,4-tetrahydronaphthalene

CAS 119-64-2  $2.5 \le x < 5$ 

204-340-2 EC **INDEX** 601-045-00-4

01-2119539463-37-XXXX Reg. no.

**ASPHALT** 

CAS 12002-43-6  $1 \le x < 5$ 

EC INDEX

Lavandin Essential oil

8022-15-9 CAS 1 ≤ x < 5

EC

INDEX

Eucaliptus globulus oil

CAS 84625-32-1  $1 \le x < 2.5$ 

EC 283-406-2

INDEX

Reg. no. 2119978250-37-0000

Mercaptide of Ag

CAS 1 ≤ x < 5

EC 945-657-2

INDEX

Eucaliptol

CAS 470-82-6  $1 \le x < 5$ 

207-431-5 EC

**INDEX** 

01-2119967772-24-0000 Reg. no.

**STOT SE 3 H335** 

Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Flam. Sol. 1 H228

Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

Skin Sens. 1 H317

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411

Carc. 2 H351, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 2 H411, EUH019

Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412

Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

Flam. Sol. 1 H228

Flam. Liq. 3 H226, Skin Sens. 1 H317

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#### FΝ

### **COLOROBBIA**

### COLOROBBIA S.P.A.

### X11--001080 - Oro Brillante 8%

Revision nr.31 Dated 18/09/2020 Printed on 12/10/2020 Page n. 4 / 21

Replaced revision:30 (Dated 14/09/2020)

**SECTION 3. Composition/information on ingredients** 

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

CAS 64742-82-1  $1 \le x < 2.5$ Flam. Liq. 3 H226, STOT RE 1 H372, Asp. Tox. 1 H304, STOT SE 3 H336,

Aquatic Chronic 2 H411, EUH066,

Classification note according to Annex VI to the CLP Regulation: P

EC 919-446-0

INDEX

Reg. no. 01-2119458049-33

Linalool

CAS 78-70-6 1 ≤ x < 5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

201-134-4 FC

INDEX

01-2119474016-42-0000 Reg. no.

(R)-P-MENTHA-1,8-DIENE

CAS 5989-27-5  $1 \le x < 2.5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1,

Classification note according to Annex VI to the CLP Regulation: C

227-813-5 FC INDEX

601-029-00-7

Reg. no. 01-2119529223-47-000

Alpha-Pinene

CAS 80-56-8 Flam. Liq. 3 H226, Acute Tox. 4 H302, Asp. Tox. 1 H304, Skin Irrit. 2 H315,  $0,5 \le x < 1$ 

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 201-291-8

INDEX

01-2119519223-49-0000 Reg. no.

Eugenol

CAS 97-53-0  $0.5 \le x < 1$ Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1 H317

FC. INDEX

4-METHYLPENTAN-2-ONE

Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066 CAS 108-10-1  $0,5 \le x < 1$ 

EC 203-550-1 INDEX 606-004-00-4 01-2119473980-30 Reg. no.

Camphene

CAS 79-92-5  $0.25 \le x < 0.5$ Flam. Sol. 1 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1,

Aguatic Chronic 1 H410 M=1 EC 201-234-8

INDEX

Reg. no. 01-2119446293-40-XXXX

(-)-Pin-2(10)-Ene

127-91-3 CAS  $0 \le x < 0.5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 242-060-2

**INDEX** 

Malaleuca alternifolia extract

CAS 85085-48-9  $0.25 \le x < 0.5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

FC

INDEX

CYCLOHEXANONE

108-94-1  $0 \le x < 0.5$ Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, CAS

Eye Dam. 1 H318, Skin Irrit. 2 H315

EC 203-631-1 INDEX 606-010-00-7 01-2119453616-35 Rea. no.

**ETHYL ACETATE** 

141-78-6 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 CAS  $0 \le x < 0.5$ 

EC 205-500-4 INDEX 607-022-00-5 Reg. no. 01-2119475103-46

Anethole

CAS 104-46-1  $0 \le x < 0.5$ Skin Sens. 1 H317

FC 2032055

INDEX

L - alpha - pinen

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, CAS 7785-26-4  $0 \le x < 0.25$ 

Aquatic Chronic 1 H410 M=1

EC 232-077-3

INDEX

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### COLOROBBIA S.P.A.

### X11--001080 - Oro Brillante 8%

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Replaced revision:30 (Dated 14/09/2020)

#### SECTION 3. Composition/information on ingredients ....

**TOLUENE** 

CAS 108-88-3 0 ≤ x < 0,5 Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373,

Skin Irrit. 2 H315, STOT SE 3 H336

EC 203-625-9
INDEX 601-021-00-3
XYLENE (MIXTURE OF ISOMERS)
CAS 1330-20-7 0 ≤ x < 0.5

Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315,

Classification note according to Annex VI to the CLP Regulation: C

EC 215-535-7 INDEX 601-022-00-9

The full wording of hazard (H) phrases is given in section 16 of the sheet.

#### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

#### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

#### SECTION 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency

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#### **SECTION 6. Accidental release measures**

procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

#### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

#### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
		kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΏΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
PRT	Portugal	implementatie van Richtlijn 2017/164 in Bijlage XIII  Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
TUR	Türkiye	23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenlenmiştir

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### **SECTION 8. Exposure controls/personal protection**

**GBR** United Kingdom OEL EU

EH40/2005 Workplace exposure limits (Third edition, published 2018)

Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive

2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH **ACGIH 2019** 

				Synthet	ic Camphoi	
Threshold Limit \	Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		13	2	19	3	

				TUR	PENTINE	
Threshold Limit \	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	300				
TLV	CZE	300		800		
VLA	ESP	113	20			
VLEP	FRA	560	100			
TLV	GRC	560	100	840	150	
TGG	NLD	560				
NDS/NDSCh	POL	112		300		
TLV	ROU	400		500		SKIN
MV	SVN	560	100	560	100	SKIN
WEL	GBR	566	100	850	150	
TLV-ACGIH		111	20			

				CYCLC	HEXANOL	
Threshold Limit V	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	200				
TLV	CZE	200	48	400	94	SKIN
VLA	ESP	208	50			SKIN
VLEP	FRA	200	50	300	75	
TLV	GRC	200	50			
TGG	NLD		1			
NDS/NDSCh	POL	10				SKIN
TLV	ROU	100	25	200	50	SKIN
MV	SVN	210	50	840	200	SKIN
WEL	GBR	208	50			
TLV-ACGIH		205	50			SKIN

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#### **SECTION 8. Exposure controls/personal protection**

				F	ROSIN	
<b>Threshold Lin</b>	nit Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	1				INHAL
TLV	ROU	0,1				
WEL	GBR	0,05		0,15		
Predicted no-	effect concentra	ation - PNEC	•			
Normal valu	ue in fresh water					0,002 mg/l

Normal value in fresh water	0,002	mg/l
Normal value in marine water	0,0002	mg/l
Normal value for fresh water sediment	0,007	mg/kg/d
Normal value for marine water sediment	0,001	mg/kg/d
Normal value of STP microorganisms	1000	mg/l
Normal value for the terrestrial compartment	0,00031	mg/kg/d

Normal value for the te	arcoular compartment			0,0000
Health - Derived no-effe	ct level - DNEL / DMEL			
	Effects on consumers			Effects on workers

Chronic Chronic Chronic Route of exposure Acute Acute Chronic Acute Acute systemic systemic systemic local systemic local local local Oral 1,065 mg/kg bw/d

Inhalation 10 mg/m3

Skin 1,065 2,131 mg/kg bw/d mg/kg bw/d

	1,2,3,4-tetrahydronaphthalene									
<b>Threshold Limit</b>	: Value									
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TI V-ACGIH		50								

				ASPHALT		
Threshold Limit	Value					
Туре	Country	TWA/8h		STEL/15min	Remarks / Observations	
		mg/m3	ppm	mg/m3 ppm		
TLV-ACGIH		5				

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)								
Threshold Limit	Value							
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH			100					

				(R)-P-MEN	THA-1,8-D	DIENE
<b>Threshold Lim</b>	it Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	28	5	112	20	SKIN
MAK	DEU	28	5	112	20	SKIN
VLA	ESP	168	30			SKIN
MV	SVN	28	5	112	20	SKIN

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### **SECTION 8. Exposure controls/personal protection**

4-METHYLPENTAN-2-ONE										
Threshold Limit V	/alue									
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	BGR	50		200						
TLV	CZE	80	19,2	200	48	SKIN				
AGW	DEU	83	20	166	40	SKIN				
MAK	DEU	83	20	166	40	SKIN				
VLA	ESP	83	20	208	50					
VLEP	FRA	83	20	208	50					
TLV	GRC	410	100	410	100					
VLEP	ITA	83	20	208	50					
TGG	NLD	104		208						
VLE	PRT	83	20	208	50					
NDS/NDSCh	POL	83		200						
TLV	ROU	83	20	208	50					
MV	SVN	83	20	208	50	SKIN				
ESD	TUR	83	20	208	50					
WEL	GBR	208	50	416	100	SKIN				
OEL	EU	83	20	208	50					
TLV-ACGIH		82	20	307	75					

CYCLOHEXANONE									
Threshold Limit \	/alue								
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	40,8	10	81,6	20	SKIN			
TLV	CZE	40	9,8	80	196	SKIN			
AGW	DEU	80	20	80	20	SKIN			
VLA	ESP	41	10	82	20	SKIN			
VLEP	FRA	40,8	10	81,6	20				
TLV	GRC	200	50	400	100				
VLEP	ITA	40,8	10	81,6	20	SKIN			
TGG	NLD			50		SKIN			
VLE	PRT	40,8	10	81,6	20	SKIN			
NDS/NDSCh	POL	40		80		SKIN			
TLV	ROU	40,8	10	81,6	20	SKIN			
MV	SVN	40,8	10	81,6	20	SKIN			
ESD	TUR	40,8	10	81,6	20	SKIN			
WEL	GBR	41	10	82	20	SKIN			
OEL	EU	40,8	10	81,6	20	SKIN			
TLV-ACGIH		80	20	201	50	SKIN			

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				ETHY	L ACETATE				
hreshold Limit V									
Туре	Country	TWA/8h		STEL/19	5min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	734	200	1468	400				
TLV	CZE	700	191,1	900	245,7				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	734	200	1468	400				
TLV	GRC	734	200	1468	400				
TGG	NLD	734		1468					
VLE	PRT	734	200	1468	400				
NDS/NDSCh	POL	734		1468					
TLV	ROU	400	111	500	139				
MV	SVN	734	200	1468	400				
WEL	GBR	734	200	1468	400				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
redicted no-effe	ct concentra	ation - PNE	С						
Normal value in	fresh water						0,26	mg/l	
Normal value in	marine wate	er					0,026	mg/l	
Normal value for	or fresh water	sediment					1,25	mg/kg	
Normal value for	or marine wat	er sedimen	t				0,125	mg/kg	
Normal value of	f STP microo	rganisms					650	mg/l	
Normal value for			lary poison	ing)			0,2	g/Kg	
Normal value for		,	<i>,</i> ,	<u> </u>			0,24	mg/kg	
lealth - Derived r							•	5 5	
	Effe	cts on cons	umers			Effects on w	orkers		
Route of expos			ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
, <b>,,</b>	loca		stemic	local	systemic	local	systemic	local	systemic
Oral	.304	. 0,		VND	4,5	.000.	0,0.00		2,0000
					mg/kg				
Inhalation	734	73	4	VND	367	1468	1468	734	734
	mg/i		ı/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	9		. =	VND	37			VND	63
J				****	mg/kg				mg/kg

TOLUENE									
Threshold Limit V	/alue								
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	192	50	384	100	SKIN			
TLV	CZE	192	50,112	384	100,224	SKIN			
AGW	DEU	190	50	760	200	SKIN			
MAK	DEU	190	50	760	200	SKIN			
VLA	ESP	192	50	384	100	SKIN			
VLEP	FRA	76,8	20	384	100	SKIN			
TLV	GRC	192	50	384	100				
VLEP	ITA	192	50			SKIN			
TGG	NLD	150		384					
VLE	PRT	192	50	384	100	SKIN			
NDS/NDSCh	POL	100		200		SKIN			
TLV	ROU	192	50	384	100	SKIN			
MV	SVN	192	50	384	100	SKIN			
ESD	TUR	192	50	384	100	SKIN			
WEL	GBR	191	50	384	100	SKIN			
OEL	EU	192	50	384	100	SKIN			
TLV-ACGIH		75,4	20						

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#### SECTION 8. Exposure controls/personal protection

XYLENE (MIXTURE OF ISOMERS)									
Threshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	221	50	442	100	SKIN			
TLV	CZE	200	45,4	400	90,8	SKIN			
AGW	DEU	440	100	880	200	SKIN			
MAK	DEU	440	100	880	200	SKIN			
VLA	ESP	221	50	442	100	SKIN			
VLEP	FRA	221	50	442	100	SKIN			
TLV	GRC	435	100	650	150				
VLEP	ITA	221	50	442	100	SKIN			
TGG	NLD	210		442		SKIN			
VLE	PRT	221	50	442	100	SKIN			
NDS/NDSCh	POL	100		200		SKIN			
TLV	ROU	221	50	442	100	SKIN			
MV	SVN	221	50	442	100	SKIN			
ESD	TUR	221	50	442	100	SKIN			
WEL	GBR	220	50	441	100	SKIN			
OEL	EU	221	50	442	100	SKIN			
TLV-ACGIH		434	100	651	150				

#### Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

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Information

#### **SECTION 9. Physical and chemical properties**

#### **SECTION 9. Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Properties** Value Appearance liquid Colour red Odour characteristic Odour threshold Not available Not applicable Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available 36 < T ≤ 44 Flash point °C **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Vapour density Not available Relative density Not available Solubility insoluble in water Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not applicable

Decomposition temperature Not available 80 cP Viscosity Explosive properties Not available Oxidising properties Not available

#### 9.2. Other information

VOC (Directive 2010/75/EC): 27,32 %

#### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

#### TURPENTINE

Dissolves rubber.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Stable in normal conditions of use and storage.

4-METHYLPENTAN-2-ONE

Reacts violently with: light metals. Attacks various types of plastic materials.

CYCLOHEXANONE

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

Avoid exposure to: light.

#### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

#### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric

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#### SECTION 10. Stability and reactivity .../>>

acid,fluorine.

In oxygen atmospheres it generates explosive peroxides.

#### CYCLOHEXANOL

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals, chromium trioxide. Forms explosive mixtures with: air.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Avoid contact with: strong oxidising agents.

May form explosive mixtures with: strong oxidising agents, chlorates, perchlorates, liquid oxygen.

Fire hazard.

#### 4-METHYLPENTAN-2-ONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

#### **CYCLOHEXANONE**

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

#### ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

#### TOLUENE

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

#### XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

#### 10.4. Conditions to avoid

Avoid overheating

#### CYCLOHEXANOL

Avoid exposure to: sources of heat,naked flames.

#### 4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

#### CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

#### ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

#### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

#### CYCLOHEXANOL

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Incompatible with: acids,bases,strong oxidants,nitrates,chlorosulphuric acid,aluminium.Incompatible materials: plastic materials.

#### 4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

#### ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

#### TURPENTINE

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

#### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 1,2,3,4-tetrahydronaphthalene

Informazioni riferite al 1,2,3,4-tetraidronaftalene:

LD50 orale ratto : 2860 mg/Kg LD50 pelle coniglio: 16710 mg/Kg Pelle : moderatamente irritante

Non sensibilizzante Occhi : non irritante.

### COLOROBBIA S.P.A.

### X11--001080 - Oro Brillante 8%

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#### SECTION 11. Toxicological information .../>>

Eugenol

Informazioni riferite all'eugenolo: LD50 orale ratto 2650 mg/Kg LD50 dermale coniglio 5000 mg/Kg.

1.2.3.4-tetrahydronaphthalene

Informazioni riferite al 1,2,3,4-tetraidronaftalene:

LD50 orale ratto : 2860 mg/Kg LD50 pelle coniglio: 16710 mg/Kg Pelle : moderatamente irritante

Non sensibilizzante Occhi : non irritante.

Eugenol

Informazioni riferite all'eugenolo: LD50 orale ratto 2650 mg/Kg LD50 dermale coniglio 5000 mg/Kg.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

**TOLUENE** 

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

NOAEL: 300 mg/Kg (cronic, oral, male animal, 2 years); LOAEC (inhalation, vapour, 90 dyes): 345 ppm; NOAEC(inhalation, rat, vapour): 300 mg/m3; NOAEL (oral, rat, 90 dyes): >= 495 mg/Kg; NOAEC (inhalation, rat, vapour, 90 dyes): 690 ppm; NOAEL (subacute, oral, female animal, 28 dyes): 1056 mg/Kg.

**TOLUENE** 

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

#### Interactive effects

#### **TOLUENE**

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

#### XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: 847,46 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

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#### SECTION 11. Toxicological information .../>>

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat LD50 (Dermal) 4350 mg/kg Rabbit LC50 (Inhalation) 26 mg/l/4h Rat

TURPENTINE

LD50 (Oral) 5760 mg/kg Rat

**TOLUENE** 

5580 mg/kg Rat LD50 (Oral) LD50 (Dermal) 12124 mg/kg Rabbit 28,1 mg/l/4h Rat LC50 (Inhalation)

4-METHYLPENTAN-2-ONE

LD50 (Oral) 2080 mg/kg Rat LD50 (Dermal) > 16000 mg/kg Rabbit LC50 (Inhalation) > 8,2 mg/l/4h Rat

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%) LD50 (Oral) > 15000 mg/kg Rat LD50 (Dermal) > 4 ml/Kg Rat

#### SKIN CORROSION / IRRITATION

Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

May produce an allergic reaction.

Contains:

L - alpha - pinen

Anethole

Malaleuca alternifolia extract

(-)-Pin-2(10)-Ene

Eugenol

Alpha-Pinene

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

#### Suspected of causing cancer

#### **TOLUENE**

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC,

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE

May cause respiratory irritation

#### FΝ

### **COLOROBBIA**

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#### SECTION 11. Toxicological information .../>>

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Toxic for aspiration

### **SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

#### 12.1. Toxicity

(R)-P-MENTHA-1,8-DIENE

LC50 - for Fish 35 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 69,6 mg/l/48h Daphnia pulex

#### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

**TURPENTINE** 

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Degradability: information not available

**TURPENTINE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

**ROSIN** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

(R)-P-MENTHA-1,8-DIENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

**TOLUENE** 100 - 1000 mg/l Solubility in water

Rapidly degradable

CYCLOHEXANOL 36000 mg/l

Solubility in water

Rapidly degradable

4-METHYLPENTAN-2-ONE

> 10000 mg/l Solubility in water

Rapidly degradable

CYCLOHEXANONE Solubility in water 0.1 - 100 ma/l

Rapidly degradable

ETHYL ACETATE Solubility in water > 10000 mg/l

Rapidly degradable

### **COLOROBBIA**

## **COLOROBBIA S.P.A.**

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#### SECTION 12. Ecological information .../>>

#### 12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS) Partition coefficient: n-octanol/water BCF	3,12 25,9
ROSIN Partition coefficient: n-octanol/water BCF	3 56,23
(R)-P-MENTHA-1,8-DIENE Partition coefficient: n-octanol/water BCF	4,38 1022
TOLUENE Partition coefficient: n-octanol/water BCF	2,73 90
CYCLOHEXANOL Partition coefficient: n-octanol/water	1,25
4-METHYLPENTAN-2-ONE Partition coefficient: n-octanol/water	1,9
CYCLOHEXANONE Partition coefficient: n-octanol/water	0,86
ETHYL ACETATE Partition coefficient: n-octanol/water BCF	0,68 30

#### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water	2,73
ROSIN Partition coefficient: soil/water	3,7289
4-METHYLPENTAN-2-ONE Partition coefficient: soil/water	2,008
CYCLOHEXANONE	

#### 12.5. Results of PBT and vPvB assessment

vPvB substances contained: Camphene

Partition coefficient: soil/water

PBT substances contained: Camphene

#### 12.6. Other adverse effects

Information not available

#### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

1,18

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

#### FΝ

### **COLOROBBIA**

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Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

#### **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, IATA: 1263

#### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

PAINT or PAINT RELATED MATERIAL (TURPENTINE) IMDG:

IATA: PAINT or PAINT RELATED MATERIAL

#### 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



#### 14.4. Packing group

ADR / RID, IMDG, IATA: Ш

#### 14.5. Environmental hazards

ADR / RID: **Environmentally Hazardous** 

IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special Provision: -

EMS: F-E, <u>S-E</u> Limited Quantities: 5 L IMDG: IATA: Cargo: Maximum quantity: 220 L

Packaging instructions: 366 Pass: Maximum quantity: 60 L Packaging instructions: 355

Special Instructions: A3, A72, A192

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

#### **SECTION 15. Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c-E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Product

### **COLOROBBIA**

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#### SECTION 15. Regulatory information ..../>>

Point 3 - 40

Contained substance

Point 48 TOLUENE

#### Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

#### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Flam. Sol. 1 Flammable solid, category 1
Carc. 2 Carcinogenicity, category 2
Repr. 2 Reproductive toxicity, category 2
Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Dam. 1 Serious eye damage, category 1
Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1Skin sensitization, category 1Skin Sens. 1BSkin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H225 Highly flammable liquid and vapour.H226 Flammable liquid and vapour.

**H228** Flammable solid.

**H351** Suspected of causing cancer.

**H361d** Suspected of damaging the unborn child.

H302 Harmful if swallowed. H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

**H304** May be fatal if swallowed and enters airways.

**H373** May cause damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

**H410** Very toxic to aquatic life with long lasting effects.

### **COLOROBBIA**

### COLOROBBIA S.P.A.

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#### SECTION 16. Other information .../>>

H411 Toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

**EUH019** May form explosive peroxides.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

### **COLOROBBIA**

### **COLOROBBIA S.P.A.**

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#### SECTION 16. Other information .../>>

This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I. Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 03 / 09.

## **COLOROBBIA S.P.A.**

### LVP--000016 - Lustro verde

Revision nr.24 Dated 10/09/2020 Printed on 12/10/2020 Page n. 1 / 20

Replaced revision:23 (Dated 27/07/2020)

### **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: LVP--000016
Product name Lustro verde

Prodotto metallo-organico per decorazione al terzo fuoco

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use third firing decoration in the glass/ceramics/porcelain sectors

#### 1.3. Details of the supplier of the safety data sheet

Name COLOROBBIA S.P.A.
Full address via Pietramarina 53
District and Country 50053 Sovigliana - Vinci

liana - Vinci (FI)

Italia

Tel. +39 0571 7091 Fax +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

#### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

#### Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Acute toxicity, category 4	H302	Harmful if swallowed.
Acute toxicity, category 4	H332	Harmful if inhaled.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure,	H335	May cause respiratory irritation.
category 3		
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H410	Very toxic to aquatic life with long lasting effects.
toxicity, category 1		

### COLOROBBIA S.P.A.

## LVP--000016 - Lustro verde

Revision nr. 24 Dated 10/09/2020 Printed on 12/10/2020 Page n. 2 / 20 Replaced revision:23 (Dated 27/07/2020)

#### **SECTION 2. Hazards identification**

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:









Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour. H302+H332 Harmful if swallowed or if inhaled.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation. H315 Causes skin irritation.

H335 May cause respiratory irritation.

May cause an allergic skin reaction. H317

Very toxic to aquatic life with long lasting effects. H410

terpinolen **EUH208** Contains:

> (-)-Pin-2(10)-Ene Alpha-Pinene Eucaliptol

Eucaliptus globulus oil (R)-P-MENTHA-1,8-DIENE

May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection. P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .

In case of fire: use . . . to extinguish. P370+P378 P273 Avoid release to the environment.

Contains: TURPENTINE

Anethole Eucalyptus Oil **ROSIN** Linalool

#### 2.3. Other hazards

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

### **SECTION 3. Composition/information on ingredients**

### **COLOROBBIA**

## COLOROBBIA S.P.A.

## LVP--000016 - Lustro verde

Revision nr.24 Dated 10/09/2020 Printed on 12/10/2020 Page n. 3 / 20

Replaced revision:23 (Dated 27/07/2020)

#### **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**ROSIN** 

CAS 8050-09-7  $25 \le x < 40$  Skin Sens. 1 H317

EC 232-475-7 INDEX 650-015-00-7

Reg. no. 01-2119480418-32-XXXX

**TURPENTINE** 

CAS 8006-64-2 10 ≤ x < 25 Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

**Aquatic Chronic 2 H411** 

EC 232-350-7 INDEX 650-002-00-6 Rea. no. 01-2119553060-53

CYCLOHEXANOL

CAS 108-93-0  $10 \le x < 20$ 

EC 203-630-6 INDEX 603-009-00-3

Reg. no. 01-2119447488-26-XXXX

**Eucalyptus Oil** 

CAS 8000-48-4 9 ≤ x < 10 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411

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FC

Titanium tetraisopropanolate

CAS 546-68-9  $1 \le x < 5$  Eye Irrit. 2 H319, STOT SE 3 H336

EC 208-909-6

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Reg. no. 01-2119967389-17-xxxx

Decahydronaphthalene

CAS 91-17-8 1 ≤ x < 2,5 Flam. Liq. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314,

Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=10

EC 202-046-9

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Reg. no. 01-2119565127-37-XXXX

**Synthetic Camphor** 

CAS 76-22-2  $1 \le x < 5$  Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

**STOT SE 3 H335** 

EC 200-945-0

INDEX

Linalool

CAS 78-70-6 1 ≤ x < 5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

EC 201-134-4

INDEX

Reg. no. 01-2119474016-42-0000

Anethole

CAS 104-46-1 1 ≤ x < 5 Skin Sens. 1 H317 EC 2032055

INDEX

Methylcyclohexanol

CAS 25639-42-3  $1 \le x < 5$  Acute Tox. 4 H332

EC 247-152-6

INDEX

(R)-P-MENTHA-1,8-DIENE

CAS 5989-27-5 0,5 ≤ x < 1 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1,

Classification note according to Annex VI to the CLP Regulation: C

EC 227-813-5 INDEX 601-029-00-7

Reg. no. 01-2119529223-47-000

**CYCLOHEXANE** 

CAS 110-82-7 0,5 ≤ x < 1 Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 203-806-2 INDEX 601-017-00-1

©EPY 10.1.6 - SDS 1004.13

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#### SECTION 3. Composition/information on ingredients

Eucaliptus globulus oil

CAS 84625-32-1  $0.5 \le x < 1$ 

EC 283-406-2

INDEX

Reg. no. 2119978250-37-0000

Eucaliptol

CAS 470-82-6  $0.5 \le x < 1$ 

EC 207-431-5

INDEX

01-2119967772-24-0000 Reg. no.

Alpha-Pinene

CAS 80-56-8  $0.25 \le x < 0.5$ 

FC. 201-291-8

**INDEX** 

01-2119519223-49-0000 Rea. no.

**TOLUENE** 

CAS 108-88-3  $0 \le x < 0.5$ 

FC 203-625-9

INDEX 601-021-00-3 **XYLENE (MIXTURE OF ISOMERS)** 

1330-20-7  $0 \le x < 0.5$ 

FC 215-535-7 601-022-00-9

INDFX Camphene

79-92-5  $0.25 \le x < 0.5$ CAS

FC 201-234-8

INDEX

01-2119446293-40-XXXX Reg. no.

(-)-Pin-2(10)-Ene

127-91-3 CAS  $0 \le x < 0.5$ 

EC 242-060-2 INDEX

terpinolen

CAS 586-62-9  $0 \le x < 0.25$ 

EC 209-578-0

INDEX

Reg. no. 01-2119982325-32-XXXX

**ETHYL ACETATE** 

141-78-6 CAS  $0 \le x < 0.5$ 

EC 205-500-4 **INDEX** 607-022-00-5 01-2119475103-46 Reg. no.

4-METHYLPENTAN-2-ONE

CAS 108-10-1  $0 \le x < 0.5$ 

EC 203-550-1 INDEX 606-004-00-4 01-2119473980-30 Reg. no.

Flam. Lig. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

Flam. Lig. 3 H226, Skin Sens. 1 H317

Flam. Liq. 3 H226, Acute Tox. 4 H302, Asp. Tox. 1 H304, Skin Irrit. 2 H315,

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

Flam. Lig. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373,

Skin Irrit. 2 H315, STOT SE 3 H336

Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315,

Classification note according to Annex VI to the CLP Regulation: C

Flam. Sol. 1 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066

The full wording of hazard (H) phrases is given in section 16 of the sheet.

#### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

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#### SECTION 4. First aid measures .../>>

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

#### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

#### 5.3. Advice for firefighters

#### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

#### **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

#### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous

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#### **SECTION 7. Handling and storage**

stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

#### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

BGR България МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО Н ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 20	
CZE Česká Republika Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/	,
kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů  DEU Deutschland TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte  Kurzzeitwerte	und
ESP España LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPA (INSST)	ÑA 2019
FRA France Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984	I - INRS
GRC Ελλάδα ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούς	
ITA Italia Decreto Legislativo 9 Aprile 2008, n.81	
NLD Nederland Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli	2018,
2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband m	
implementatie van Richtlijn 2017/164 in Bijlage XIII	
PRT Portugal Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria	a de
protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à e	xposição a
agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho	de 2018
POL Polska ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dn czerwca 2018 r	ia 12
ROU România HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.	219/2006
privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigura	
lucrătorilor împotriva riscurilor legate de prezența agenților chimici	ea protecției
SVN Slovenija Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK	o varovaniu
delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu	o varovariju
TUR Türkiye 23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenler	nmistir
GBR United Kingdom EH40/2005 Workplace exposure limits (Third edition, published 2018)	mingu
EU OEL EU Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive	re (FU)
2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; I	` '
2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.	
TLV-ACGIH ACGIH 2019	

Threshold Limit Value

Type

TLV

TLV

WEL

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SECTION 8. Exposure controls/personal protection

TWA/8h

mg/m3

0.1

0,05

Country

CZE

ROU

**GBR** 

Predicted no-effect concentration - PNEC

	ROSIN	
	STEL/15min	Remarks / Observations
ppm	mg/m3 ppm	
		INHAL
	0,15	
		0,002 mg/l
		0,0002 mg/l

Normal value in fresh water	0,002	mg/l
Normal value in marine water	0,0002	mg/l
Normal value for fresh water sediment	0,007	mg/kg/d
Normal value for marine water sediment	0,001	mg/kg/d
Normal value of STP microorganisms	1000	mg/l
Normal value for the terrestrial compartment	0,00031	mg/kg/d

	Normal value for the te	irestra com	partificit				0,00031	mg/kg/u	
Н	ealth - Derived no-effe	ct level - DN	EL / DMEL						
		Effects on o	consumers	Effects on workers					
	Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
		local	systemic	local	systemic	local	systemic	local	systemic
	Oral				1,065 mg/kg bw/d				
	Inhalation							10 mg/m3	

		mg/m3
Skin	1,065	2,131
	mg/kg bw/d	mg/kg
		bw/d

				TUR	PENTINE		
Threshold Limit \	/alue						
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	300					
TLV	CZE	300		800			
VLA	ESP	113	20				
VLEP	FRA	560	100				
TLV	GRC	560	100	840	150		
TGG	NLD	560					
NDS/NDSCh	POL	112		300			
TLV	ROU	400		500		SKIN	
MV	SVN	560	100	560	100	SKIN	
WEL	GBR	566	100	850	150		
TLV-ACGIH		111	20				

				CYCLC	HEXANOL						
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV	BGR	200									
TLV	CZE	200	48	400	94	SKIN					
VLA	ESP	208	50			SKIN					
VLEP	FRA	200	50	300	75						
TLV	GRC	200	50								
TGG	NLD		1								
NDS/NDSCh	POL	10				SKIN					
TLV	ROU	100	25	200	50	SKIN					
MV	SVN	210	50	840	200	SKIN					
WEL	GBR	208	50								
TLV-ACGIH		205	50			SKIN					

	Decahydronaphthalene										
Threshold Limit Value											
Type	Country	TWA/8h	STEL/15min		min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV-ACGIH		100									

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### **SECTION 8. Exposure controls/personal protection**

				Synthet	ic Camphor		
Threshold Limit	Value						
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH		13	2	19	3		

				Methylc	yclohexanol	
<b>Threshold Limit</b>	Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH			50			

	(R)-P-MENTHA-1,8-DIENE											
Threshold Limit Value												
Type	Country	TWA/8h		STEL/15min		Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
AGW	DEU	28	5	112	20	SKIN						
MAK	DEU	28	5	112	20	SKIN						
VLA	ESP	168	30			SKIN						
MV	SVN	28	5	112	20	SKIN						

				CYCLO	DHEXANE	
Threshold Limit V	/alue					
Type	Country	TWA/8h		STEL/15r	nin	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	700	200			
TLV	CZE	700	200,2	2000	572	
AGW	DEU	700	200	2800	800	
MAK	DEU	700	200	2800	800	
VLA	ESP	700	200			
VLEP	FRA	700	200	1300	375	11
TLV	GRC	700	200			
VLEP	ITA	350	100			
TGG	NLD	700		1400		
VLE	PRT	700	200			
NDS/NDSCh	POL	300		1000		SKIN
TLV	ROU	700	200			
MV	SVN	700	200	2800	800	
ESD	TUR	700	200			
WEL	GBR	350	100	1050	300	
OEL	EU	700	200			
TLV-ACGIH		344	100			

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### **SECTION 8. Exposure controls/personal protection**

				то	LUENE	
				10	LUENE	
Threshold Limit V						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	192	50	384	100	SKIN
TLV	CZE	192	50,112	384	100,224	SKIN
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	760	200	SKIN
VLA	ESP	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
TLV	GRC	192	50	384	100	
VLEP	ITA	192	50			SKIN
TGG	NLD	150		384		
VLE	PRT	192	50	384	100	SKIN
NDS/NDSCh	POL	100		200		SKIN
TLV	ROU	192	50	384	100	SKIN
MV	SVN	192	50	384	100	SKIN
ESD	TUR	192	50	384	100	SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH		75,4	20			

	XYLENE (MIXTURE OF ISOMERS)											
Threshold Limit V	/alue											
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
TLV	BGR	221	50	442	100	SKIN						
TLV	CZE	200	45,4	400	90,8	SKIN						
AGW	DEU	440	100	880	200	SKIN						
MAK	DEU	440	100	880	200	SKIN						
VLA	ESP	221	50	442	100	SKIN						
VLEP	FRA	221	50	442	100	SKIN						
TLV	GRC	435	100	650	150							
VLEP	ITA	221	50	442	100	SKIN						
TGG	NLD	210		442		SKIN						
VLE	PRT	221	50	442	100	SKIN						
NDS/NDSCh	POL	100		200		SKIN						
TLV	ROU	221	50	442	100	SKIN						
MV	SVN	221	50	442	100	SKIN						
ESD	TUR	221	50	442	100	SKIN						
WEL	GBR	220	50	441	100	SKIN						
OEL	EU	221	50	442	100	SKIN						
TLV-ACGIH		434	100	651	150							

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SECTION 8. Exposure controls/personal protection .../

				ETHYL	ACETATE				
hreshold Limit \	/alue								
Туре	Country	TWA/8h		STEL/15		Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	734	200	1468	400				
TLV	CZE	700	191,1	900	245,7				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	734	200	1468	400				
TLV	GRC	734	200	1468	400				
TGG	NLD	734		1468					
VLE	PRT	734	200	1468	400				
NDS/NDSCh	POL	734		1468					
TLV	ROU	400	111	500	139				
MV	SVN	734	200	1468	400				
WEL	GBR	734	200	1468	400				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
redicted no-effe	ct concentra	ation - PNE	С						
Normal value in	fresh water						0,26	mg/l	
Normal value in	n marine wate	er					0,026	mg/l	
Normal value for	or fresh water	r sediment					1,25	mg/kg	
Normal value for	or marine wa	ter sedimen	t				0,125	mg/kg	
Normal value o	f STP microc	organisms					650	mg/l	
Normal value for			dary poisoni	ng)			0,2	g/Kg	
Normal value for				37			0,24	mg/kg	
ealth - Derived r							-,	3 3	
	Effe	cts on cons	umers			Effects on w	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sv	stemic	local	systemic	local	systemic	local	systemic
Oral	.000	9,	· · · <del>-</del>	VND	4.5		-,		- ,
•					mg/kg				
Inhalation	734	73	4	VND	367	1468	1468	734	734
	mg/		ı/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	9		, =	VND	37			VND	63
- ****					mg/kg				mg/kg

				4-METHYLP	ENTAN-2	ONE	
Threshold Limit V	/alue						
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	50		200			
TLV	CZE	80	19,2	200	48	SKIN	
AGW	DEU	83	20	166	40	SKIN	
MAK	DEU	83	20	166	40	SKIN	
VLA	ESP	83	20	208	50		
VLEP	FRA	83	20	208	50		
TLV	GRC	410	100	410	100		
VLEP	ITA	83	20	208	50		
TGG	NLD	104		208			
VLE	PRT	83	20	208	50		
NDS/NDSCh	POL	83		200			
TLV	ROU	83	20	208	50		
MV	SVN	83	20	208	50	SKIN	
ESD	TUR	83	20	208	50		
WEL	GBR	208	50	416	100	SKIN	
OEL	EU	83	20	208	50		
TLV-ACGIH		82	20	307	75		

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

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### SECTION 8. Exposure controls/personal protection

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

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### **SECTION 9. Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Properties	Value
Appearance	liquid
Colour	Not available
Odour	characteristic
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	32 T≤37 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not applicable
Upper inflammability limit	Not applicable
Lower explosive limit	Not applicable
Upper explosive limit	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

Information

#### 9.2. Other information

D.......................

VOC (Directive 2010/75/EC): 29,48 %

# COLOROBBIA S.P.A.

## LVP--000016 - Lustro verde

Revision nr.24 Dated 10/09/2020 Printed on 12/10/2020 Page n. 12 / 20

Replaced revision:23 (Dated 27/07/2020)

### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

#### TURPENTINE

Dissolves rubber.

TOI UENE

Avoid exposure to: light.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

#### 4-METHYLPENTAN-2-ONE

Reacts violently with: light metals. Attacks various types of plastic materials.

#### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

#### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

#### **TURPENTINE**

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid fluorine

In oxygen atmospheres it generates explosive peroxides.

#### CYCLOHEXANOL

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals, chromium trioxide. Forms explosive mixtures with: air.

#### CYCLOHEXANE

May react violently with: strong oxidants, liquid nitric oxide. Forms explosive mixtures with: air.

#### TOLUENI

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids. sulphur.

#### XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

### ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

#### 4-METHYLPENTAN-2-ONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

### 10.4. Conditions to avoid

Avoid overheating.

#### **CYCLOHEXANOL**

Avoid exposure to: sources of heat,naked flames.

#### ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

#### 4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

#### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

### CYCLOHEXANOL

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

#### CYCLOHEXANE

Incompatible materials: natural rubbers, neoprene, polyvinyl chloride, polyethylene.

#### ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

### 4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

## **COLOROBBIA S.P.A.**

## LVP--000016 - Lustro verde

Revision nr.24 Dated 10/09/2020 Printed on 12/10/2020 Page n. 13 / 20

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#### SECTION 10. Stability and reactivity .../

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

#### **TURPENTINE**

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

#### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

**CYCLOHEXANE** 

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance

**TOLUENE** 

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### CYCLOHEXANE

Irritating for the skin and mucous membranes, and may be absorbed by the skin; nerve damage can occur at high doses and is largely due to the cyclohexanone, its metabolite.

#### TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

#### Interactive effects

#### CYCLOHEXANE

The substance may enhance the effects of agents such as tri-ortho-cresyl phosphate (TOCP).

#### **TOLUENE**

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

#### XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture: 18,59 mg/l
ATE (Oral) of the mixture: 1000,00 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

## **COLOROBBIA S.P.A.**

## LVP--000016 - Lustro verde

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#### **SECTION 11. Toxicological information** .../>>

XYLENE (MIXTURE OF ISOMERS)

3523 mg/kg Rat LD50 (Oral) LD50 (Dermal) 4350 mg/kg Rabbit LC50 (Inhalation) 26 mg/l/4h Rat

TURPENTINE

LD50 (Oral) 5760 mg/kg Rat

**CYCLOHEXANE** 

LD50 (Oral) > 5000 mg/kg Rat LD50 (Dermal) > 2000 mg/kg Rabbit LC50 (Inhalation) 13,9 mg/l/4h Rat

**TOLUENE** 

LD50 (Oral) 5580 mg/kg Rat LD50 (Dermal) 12124 mg/kg Rabbit 28,1 mg/l/4h Rat LC50 (Inhalation)

4-METHYLPENTAN-2-ONE

LD50 (Oral) 2080 mg/kg Rat LD50 (Dermal) > 16000 mg/kg Rabbit LC50 (Inhalation) > 8,2 mg/l/4h Rat

#### SKIN CORROSION / IRRITATION

Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

May produce an allergic reaction.

Contains:

terpinolen

(-)-Pin-2(10)-Ene

Alpha-Pinene

Eucaliptol

Eucaliptus globulus oil

(R)-P-MENTHA-1,8-DIENE

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC,

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

May cause respiratory irritation

#### FΝ

### **COLOROBBIA**

## **COLOROBBIA S.P.A.**

# LVP--000016 - Lustro verde

Revision nr.24 Dated 10/09/2020 Printed on 12/10/2020 Page n. 15 / 20 Replaced revision:23 (Dated 27/07/2020)

### SECTION 11. Toxicological information .../>>

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

### **SECTION 12. Ecological information**

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

#### 12.1. Toxicity

(R)-P-MENTHA-1,8-DIENE

LC50 - for Fish 35 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 69,6 mg/l/48h Daphnia pulex

CYCLOHEXANE

4,53 mg/l/96h Pimephales promelas LC50 - for Fish EC50 - for Crustacea 3,89 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants 32,7 mg/l/72h Chlorella vulgaris

#### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

**TURPENTINE** 

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

XYLENE (MIXTURE OF ISOMERS)

100 - 1000 mg/l Solubility in water

Degradability: information not available

**TURPENTINE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

0,1 - 100 mg/l Solubility in water

Rapidly degradable

(R)-P-MENTHA-1,8-DIENE

Solubility in water 0,1 - 100 mg/l Rapidly degradable

CYCLOHEXANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

**TOLUENE** Solubility in water 100 - 1000 mg/l

Rapidly degradable

CYCLOHEXANOL

Solubility in water 36000 mg/l

Rapidly degradable

4-METHYLPENTAN-2-ONE > 10000 mg/l Solubility in water

Rapidly degradable

ΕN

### **COLOROBBIA**

## **COLOROBBIA S.P.A.**

# LVP--000016 - Lustro verde

Revision nr.24 Dated 10/09/2020 Printed on 12/10/2020 Page n. 16 / 20 Replaced revision:23 (Dated 27/07/2020)

### SECTION 12. Ecological information .../>>

ETHYL ACETATE Solubility in water

> 10000 mg/l

Rapidly degradable

#### 12.3. Bioaccumulative potential

XYLENE	(MIXTURE OF ISOMERS)
--------	----------------------

Partition coefficient: n-octanol/water 3,12 BCF 25,9

**ROSIN** 

Partition coefficient: n-octanol/water 3 56,23

(R)-P-MENTHA-1,8-DIENE

Partition coefficient: n-octanol/water 4,38 1022 **BCF** 

CYCLOHEXANE

Partition coefficient: n-octanol/water 3,44

**TOLUENE** 

Partition coefficient: n-octanol/water 2,73 90

**CYCLOHEXANOL** 

1,25 Partition coefficient: n-octanol/water

4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water 1,9

ETHYL ACETATE

0,68 Partition coefficient: n-octanol/water

#### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

3,7289 Partition coefficient: soil/water

CYCLOHEXANE

Partition coefficient: soil/water 2,89

4-METHYLPENTAN-2-ONE

2,008 Partition coefficient: soil/water

#### 12.5. Results of PBT and vPvB assessment

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

#### 12.6. Other adverse effects

Information not available

## COLOROBBIA S.P.A.

## LVP--000016 - Lustro verde

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#### **SECTION 13. Disposal considerations**

### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, IATA: 1263

#### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

IMDG: PAINT or PAINT RELATED MATERIAL (TURPENTINE)

PAINT or PAINT RELATED MATERIAL IATA:

#### 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

Class: 3 Label: 3 IATA:



#### 14.4. Packing group

ADR / RID, IMDG, IATA: Ш

#### 14.5. Environmental hazards

ADR / RID: **Environmentally Hazardous** 

IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special Provision: -

IMDG: EMS: F-E, S-E Limited Quantities: 5 L Maximum quantity: 220 L IATA: Cargo:

Packaging instructions: 366 Pass.: Maximum quantity: 60 L Packaging instructions: 355

A3, A72, A192 Special Instructions:

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

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### **COLOROBBIA**

## **COLOROBBIA S.P.A.**

## LVP--000016 - Lustro verde

Revision nr.24 Dated 10/09/2020 Printed on 12/10/2020 Page n. 18 / 20

Replaced revision:23 (Dated 27/07/2020)

### **SECTION 15. Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC:

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 57 CYCLOHEXANE
Point 48 TOLUENE

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2
Flammable liquid, category 2
Flam. Sol. 1
Flammable solid, category 1
Repr. 2
Acute Tox. 3
Acute Tox. 4
Asp. Tox. 1
Flammable solid, category 1
Reproductive toxicity, category 2
Acute toxicity, category 3
Acute toxicity, category 4
Asp. Tox. 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1BSkin corrosion, category 1BEye Irrit. 2Eye irritation, category 2Skin Irrit. 2Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1
Skin Sens. 1B Skin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

**H228** Flammable solid.

**H361d** Suspected of damaging the unborn child.

H331 Toxic if inhaled.

H302+H332 Harmful if swallowed or if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

**H304** May be fatal if swallowed and enters airways.

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### **COLOROBBIA**

### COLOROBBIA S.P.A.

# LVP--000016 - Lustro verde

Revision nr.24 Dated 10/09/2020 Printed on 12/10/2020 Page n. 19 / 20

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#### SECTION 16. Other information .../>>

**H373** May cause damage to organs through prolonged or repeated exposure.

**H314** Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.
 H315 Causes skin irritation.
 H335 May cause respiratory irritation.
 H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website

## **COLOROBBIA S.P.A.**

# LVP--000016 - Lustro verde

Revision nr.24 Dated 10/09/2020 Printed on 12/10/2020 Page n. 20 / 20 Replaced revision:23 (Dated 27/07/2020)

#### **SECTION 16. Other information**

- ECHA website- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 08 / 09.

## **COLOROBBIA ITALIA S.P.A.**

### LAP--000008 - Lustro Arancio Chiaro

Revision nr.15 Dated 22/09/2020 Printed on 02/07/2021 Page n. 1/20

Replaced revision:14 (Dated 22/09/2020)

### **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: LAP--000008

Product name Lustro Arancio Chiaro

Prodotto metallo-organico per decorazione al terzo fuoco

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use third firing decoration in the glass/ceramics/porcelain sectors

1.3. Details of the supplier of the safety data sheet

Name COLOROBBIA ITALIA S.P.A.

Full address via Pietramarina 53

District and Country 50053 Sovigliana - Vinci (FI)

Italia

Tel. +39 0571 7091 Fax +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

#### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

and vapour.
the unborn child.
d and enters airways.
ation.
ritation.
kin reaction.
long lasting effects.
r

## **COLOROBBIA ITALIA S.P.A.**

### LAP--000008 - Lustro Arancio Chiaro

Printed on 02/07/2021 Page n. 2 / 20

Replaced revision:14 (Dated 22/09/2020)

#### **SECTION 2. Hazards identification** .../>>

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:









Signal words: Danger

Hazard statements:

H225 Highly flammable liquid and vapour. H361d Suspected of damaging the unborn child.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation. H315 Causes skin irritation.

H335 May cause respiratory irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.

**EUH208** Contains: Linalool

Anethole

May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection. P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .

P370+P378 In case of fire: use . . . to extinguish. Avoid release to the environment. P273

Contains: **TOLUENE** 

**TURPENTINE** Eucalyptus Oil ROSIN

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

#### **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**ROSIN** 

Skin Sens. 1 H317 CAS 8050-09-7  $9 \le x < 25$ 

EC 232-475-7 INDEX 650-015-00-7

Reg. no. 01-2119480418-32-XXXX

TURPENTINE

CAS 8006-64-2  $10 \le x < 25$ Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

**Aquatic Chronic 2 H411** 

FC 232-350-7 INDEX 650-002-00-6

@EPY 10.1.6 - SDS 1004.13

#### FΝ

### **COLOROBBIA**

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#### ... / >> **SECTION 3. Composition/information on ingredients**

Reg. no. 01-2119553060-53

**CYCLOHEXANOL** 

CAS 108-93-0  $10 \le x < 20$ 

EC 203-630-6

**INDEX** 603-009-00-3

Reg. no. 01-2119447488-26-XXXX

**Eucalyptus Oil** 

CAS 8000-48-4  $5 \le x < 9$ 

EC INDEX

**CYCLOHEXANE** 

CAS 110-82-7  $5 \le x < 9$ 

FC 203-806-2 INDEX 601-017-00-1

Synthetic Camphor

76-22-2 1 ≤ x < 5 CAS

EC 200-945-0

INDEX **TOLUENE** 

CAS 108-88-3 3 < x < 5

203-625-9 FC INDEX 601-021-00-3

**N-BUTYL ACETATE** 

CAS 123-86-4  $1 \le x < 5$ 

204-658-1 FC. INDEX 607-025-00-1 Reg. no. 01-2119485493-29

CYCLOHEXANONE

108-94-1 CAS  $1 \le x < 3$ 

FC 203-631-1 INDEX 606-010-00-7 Reg. no. 01-2119453616-35

Methylcyclohexanol

25639-42-3 1 ≤ x < 5 CAS

EC 247-152-6

INDEX

Fatty acids, C6-19-branched, iron salts

CAS 68308-20-3 1≤x< 5

269-635-0 EC

INDEX

**ETHYL ACETATE** 

CAS 141-78-6  $0.5 \le x < 1$ 

EC 205-500-4 INDEX 607-022-00-5 01-2119475103-46

Rea. no. **ACETONE** 

CAS 67-64-1  $0.5 \le x < 1$ 

EC 200-662-2 INDEX 606-001-00-8

01-2119471330-49-XXXX Reg. no.

**XYLENE (MIXTURE OF ISOMERS)** 

CAS 1330-20-7  $0.5 \le x < 1$ 

EC 215-535-7 INDEX 601-022-00-9

Anethole

104-46-1  $0 \le x < 0.5$ CAS

EC 2032055

INDEX

Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411

Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

STOT SE 3 H335

Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373,

Skin Irrit. 2 H315, STOT SE 3 H336

Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Eye Dam. 1 H318, Skin Irrit. 2 H315

Acute Tox. 4 H332

Skin Irrit. 2 H315

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Classification note/notes according to Annex VI to the CLP Regulation: C

Skin Sens. 1 H317

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#### SECTION 3. Composition/information on ingredients

Linalool

CAS 78-70-6  $0 \le x < 0.5$  Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

EC 201-134-4

INDEX

Reg. no. 01-2119474016-42-0000

The full wording of hazard (H) phrases is given in section 16 of the sheet.

#### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

### **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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#### SECTION 6. Accidental release measures .../>>

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА
075	×	ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
		kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
		implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
	· ·	protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a
		agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12
		czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006
		privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției
		lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju
OVIV	Olovenija	delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
TUR	Türkiye	23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenlenmiştir
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
	•	
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU)

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### SECTION 8. Exposure controls/personal protection .../>>

2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH

ACGIH 2020

				R	OSIN				
Threshold Limit Val	lue								
Туре	Country	TWA/8h		STEL/15r	nin	Remarks / O	bservations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	1				INHAL			
TLV	ROU	0,1							
WEL	GBR	0,05		0,15					
Predicted no-effect	concentra	ation - PNEC	;						
Normal value in fr	resh water						0,002	mg/l	
Normal value in n	narine wate	er					0,0002	mg/l	
Normal value for	fresh water	sediment					0,007	mg/kg/d	
Normal value for	marine wat	er sediment					0,001	mg/kg/d	
Normal value of S	STP microo	rganisms					1000	mg/l	
Normal value for t							0,00031	mg/kg/d	
lealth - Derived no	-effect lev	el - DNEL / I	OMEL						
	Effe	cts on consu	mers			Effects on wor	kers		
Route of exposure	e Acu	te Acu	te	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	temic	local	systemic	local	systemic	local	systemic
Oral					1,065				
					mg/kg bw/d				
Inhalation								10	
								mg/m3	
Skin					1,065				2,131
					mg/kg bw/d				mg/kg
									bw/d

				TUR	PENTINE	
Threshold Limit \	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	300				
TLV	CZE	300		800		
VLA	ESP	113	20			
VLEP	FRA	560	100			
TLV	GRC	560	100	840	150	
TGG	NLD	560				
NDS/NDSCh	POL	112		300		
TLV	ROU	400		500		SKIN
MV	SVN	560	100	560	100	SKIN
WEL	GBR	566	100	850	150	
TLV-ACGIH		111	20			

				CYCLC	HEXANOL	
Threshold Limit V	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	200				
TLV	CZE	200	48	400	94	SKIN
VLA	ESP	208	50			SKIN
VLEP	FRA	200	50	300	75	
TLV	GRC	200	50			
TGG	NLD		1			
NDS/NDSCh	POL	10				SKIN
TLV	ROU	100	25	200	50	SKIN
MV	SVN	210	50	840	200	SKIN
WEL	GBR	208	50			
TLV-ACGIH		205	50			SKIN

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SECTION 8. Exposure controls/personal protection

1>>

				CYCL	OHEXANE		
hreshold Limit \	/alue						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
•		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	700	200				
TLV	CZE	700	200,2	2000	572		
AGW	DEU	700	200	2800	800		
MAK	DEU	700	200	2800	800		
VLA	ESP	700	200				
VLEP	FRA	700	200	1300	375	11	
TLV	GRC	700	200				
VLEP	ITA	350	100				
TGG	NLD	700		1400			
VLE	PRT	700	200				
NDS/NDSCh	POL	300		1000		SKIN	
TLV	ROU	700	200				
MV	SVN	700	200	2800	800		
ESD	TUR	700	200				
WEL	GBR	350	100	1050	300		
OEL	EU	700	200				
TLV-ACGIH		344	100				

				Synthet	ic Campho	or
<b>Threshold Limit</b>	Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		13	2	19	3	

				то	LUENE	
Threshold Limit V	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	192	50	384	100	SKIN
TLV	CZE	192	50,112	384	100,224	SKIN
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	760	200	SKIN
VLA	ESP	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
TLV	GRC	192	50	384	100	
VLEP	ITA	192	50			SKIN
TGG	NLD	150		384		
VLE	PRT	192	50	384	100	SKIN
NDS/NDSCh	POL	100		200		SKIN
TLV	ROU	192	50	384	100	SKIN
MV	SVN	192	50	384	100	SKIN
ESD	TUR	192	50	384	100	SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH		75,4	20			

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				N-BUTY	L ACETATE		
Threshold Limit V	/alue			2011			
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
,,		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	710		950	• •		
TLV	CZE	950	196,65	1200	248,4		
AGW	DEU	300	62	600 (C)	124 (C)		
VLA	ESP	724	150	965	200		
VLEP	FRA	710	150	940	200		
TLV	GRC	710	150	950	200		
TGG	NLD	150					
NDS/NDSCh	POL	240		720			
TLV	ROU	715	150	950	200		
MV	SVN	300	62	600	124		
WEL	GBR	724	150	966	200		
OEL	EU	241	50	723	150		
TLV-ACGIH			50		150		
Predicted no-effe	ct concentra	tion - PNEC	;				
Normal value in	fresh water					0,18	mg/l
Normal value in	marine wate	r				0,018	mg/l
Normal value for	or fresh water	sediment				0,981	mg/kg
Normal value for	or marine wat	er sediment				0,0981	mg/kg
Normal value of	f STP microo	rganisms				35,6	mg/l
Normal value for			ent			0,0903	mg/kg

				CYCLO	HEXANON	IE
Threshold Limit V	/alue					
Туре	Country	TWA/8h		STEL/15r	nin	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	40,8	10	81,6	20	SKIN
TLV	CZE	40	9,8	80	196	SKIN
AGW	DEU	80	20	80	20	SKIN
VLA	ESP	41	10	82	20	SKIN
VLEP	FRA	40,8	10	81,6	20	
TLV	GRC	200	50	400	100	
VLEP	ITA	40,8	10	81,6	20	SKIN
TGG	NLD			50		SKIN
VLE	PRT	40,8	10	81,6	20	SKIN
NDS/NDSCh	POL	40		80		SKIN
TLV	ROU	40,8	10	81,6	20	SKIN
MV	SVN	40,8	10	81,6	20	SKIN
ESD	TUR	40,8	10	81,6	20	SKIN
WEL	GBR	41	10	82	20	SKIN
OEL	EU	40,8	10	81,6	20	SKIN
TLV-ACGIH		80	20	201	50	SKIN

				Methylc	yclohexanol	
Threshold Limit	Value					
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH			50			

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SECTION 8. Exposure controls/personal protection .../

				ETHYI	ACETATE				
Threshold Limit V	/alue								
Type	Country	TWA/8h		STEL/15	imin	Remarks /	Observations		
	-	mg/m3	ppm	mg/m3	ppm				
TLV	BGR	734	200	1468	400				
TLV	CZE	700	191,1	900	245,7				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	734	200	1468	400				
TLV	GRC	734	200	1468	400				
TGG	NLD	734		1468					
VLE	PRT	734	200	1468	400				
NDS/NDSCh	POL	734		1468					
TLV	ROU	400	111	500	139				
MV	SVN	734	200	1468	400				
WEL	GBR	734	200	1468	400				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
Predicted no-effe	ct concentra	ation - PNE	С						
Normal value in	fresh water						0,26	mg/l	
Normal value in	marine water	er					0,026	mg/l	
Normal value for	or fresh water	rsediment					1,25	mg/kg	
Normal value for	or marine wat	ter sedimen	t				0,125	mg/kg	
Normal value of	f STP microo	rganisms					650	mg/l	
Normal value for	or the food ch	ain (second	lary poisoni	ng)			0,2	g/Kg	
Normal value for	or the terrestr	ial comparti	ment				0,24	mg/kg	
lealth - Derived n	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on we	orkers		
Route of exposi	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	stemic	local	systemic	local	systemic	local	systemic
Oral				VND	4,5 mg/kg				
Inhalation	734	73	4	VND	367	1468	1468	734	734
	mg/	m3 mg	ı/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	J			VND	37 mg/kg	-	-	VND	63 mg/kg

				ACE	ETONE	
Threshold Limit V	'alue					
Type	Country	TWA/8h		STEL/15n	nin	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	600		1400		
TLV	CZE	800	331,2	1500	621	
AGW	DEU	1200	500	2400 (C)	1000 (C)	
MAK	DEU	1200	500	2400	1000	
VLEP	FRA	1210	500	2420	1000	
TLV	GRC	1780		3560		
VLEP	ITA	1210	500			
TGG	NLD	1210		2420		
VLE	PRT	1210	500			
NDS/NDSCh	POL	600		1800		
TLV	ROU	1210	500			
MV	SVN	1210	500	2420	1000	
ESD	TUR	1210	500			
WEL	GBR	1210	500	3620	1500	
OEL	EU	1210	500			
TLV-ACGIH			250		500	

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#### SECTION 8. Exposure controls/personal protection

			X	YLENE (MIXT	JRE OF IS	OMERS)
Threshold Limit V	/alue			•		•
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	221	50	442	100	SKIN
TLV	CZE	200	45,4	400	90,8	SKIN
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
VLA	ESP	221	50	442	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
TLV	GRC	435	100	650	150	
VLEP	ITA	221	50	442	100	SKIN
TGG	NLD	210		442		SKIN
VLE	PRT	221	50	442	100	SKIN
NDS/NDSCh	POL	100		200		SKIN
TLV	ROU	221	50	442	100	SKIN
MV	SVN	221	50	442	100	SKIN
ESD	TUR	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	

#### Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

#### **SECTION 9. Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

PropertiesValueAppearanceliquidColourNot available

Information

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### SECTION 9. Physical and chemical properties .../>

characteristic Odour Odour threshold Not available Not available °C Melting point / freezing point Not available Initial boiling point Boiling range Not available °C Flash point 16 < T ≤ 19 Evaporation Rate Not available Flammability of solids and gases Not available Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Vapour density Not available . Relative density Not available Solubility insoluble in water Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not applicable Not available Decomposition temperature Not available Viscosity Not available Explosive properties Oxidising properties Not available

#### 9.2. Other information

VOC (Directive 2010/75/EC): 45,14 %

#### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

#### **TURPENTINE**

Dissolves rubber.

**TOLUENE** 

Avoid exposure to: light.

N-BUTYL ACETATE

Decomposes on contact with: water.

CYCLOHEXANONE

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

#### ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

#### **ACETONE**

Decomposes under the effect of heat.

#### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

#### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

#### **TURPENTINE**

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid. fluorine.

In oxygen atmospheres it generates explosive peroxides.

#### **CYCLOHEXANOL**

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals,chromium trioxide. Forms explosive mixtures with: air.

#### CYCLOHEXANE

May react violently with: strong oxidants, liquid nitric oxide. Forms explosive mixtures with: air.

**TOLUENE** 

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#### SECTION 10. Stability and reactivity .../>>

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

#### N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

#### **CYCLOHEXANONE**

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

#### ETHYL ACETATE

Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine,strong oxidising agents,chlorosulphuric acid,potassium tert-butoxide.Forms explosive mixtures with: air.

#### **ACETONE**

Risk of explosion on contact with: bromine trifluoride.fluorine dioxide,hydrogen peroxide.nitrosyl chloride,2-methyl-1,3

butadiene,nitromethane,nitrosyl perchlorate.May react dangerously with: potassium tert-butoxide,alkaline

hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric

acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents,strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

#### XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

#### 10.4. Conditions to avoid

Avoid overheating.

#### **CYCLOHEXANOL**

Avoid exposure to: sources of heat,naked flames.

#### N-BUTYL ACETATE

Avoid exposure to: moisture, sources of heat, naked flames.

#### CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

#### ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

#### **ACETONE**

Avoid exposure to: sources of heat,naked flames.

#### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

#### **CYCLOHEXANOL**

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

#### **CYCLOHEXANE**

Incompatible materials: natural rubbers, neoprene, polyvinyl chloride, polyethylene.

#### N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

#### ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

#### **ACETONE**

Incompatible with: acids,oxidising substances.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

#### **TURPENTINE**

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

#### ACFTONE

May develop: ketenes,irritant substances.

### SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

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#### SECTION 11. Toxicological information .../>>

#### Information on likely routes of exposure

#### **CYCLOHEXANE**

WORKERS: inhalation: contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

#### **TOLUENE**

WORKERS: inhalation: contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

#### N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

#### XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **CYCLOHEXANE**

Irritating for the skin and mucous membranes, and may be absorbed by the skin; nerve damage can occur at high doses and is largely due to the cyclohexanone, its metabolite.

#### **TOLUENE**

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

#### N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

#### XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

#### Interactive effects

#### CYCLOHEXANE

The substance may enhance the effects of agents such as tri-ortho-cresyl phosphate (TOCP).

#### **TOLUENE**

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

#### N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

#### XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

### ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: 943,40 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

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#### **SECTION 11. Toxicological information** .../>>

XYLENE (MIXTURE OF ISOMERS)

 LD50 (Oral)
 3523 mg/kg Rat

 LD50 (Dermal)
 4350 mg/kg Rabbit

 LC50 (Inhalation)
 26 mg/l/4h Rat

**TURPENTINE** 

LD50 (Oral) 5760 mg/kg Rat

CYCLOHEXANE

 LD50 (Oral)
 > 5000 mg/kg Rat

 LD50 (Dermal)
 > 2000 mg/kg Rabbit

 LC50 (Inhalation)
 13,9 mg/l/4h Rat

TOLUENE

 LD50 (Oral)
 5580 mg/kg Rat

 LD50 (Dermal)
 12124 mg/kg Rabbit

 LC50 (Inhalation)
 28,1 mg/l/4h Rat

N-BUTYL ACETATE

 LD50 (Oral)
 > 6400 mg/kg Rat

 LD50 (Dermal)
 > 5000 mg/kg Rabbit

 LC50 (Inhalation)
 21,1 mg/l/4h Rat

#### SKIN CORROSION / IRRITATION

Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

May produce an allergic reaction.

Contains:

Linalool

Anethole

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### **TOLUENE**

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999)

The ÚS Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

### XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

#### STOT - SINGLE EXPOSURE

May cause respiratory irritation

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

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#### SECTION 11. Toxicological information .../>>

ASPIRATION HAZARD

Toxic for aspiration

### **SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

#### 12.1. Toxicity

CYCLOHEXANE

4,53 mg/l/96h Pimephales promelas LC50 - for Fish EC50 - for Crustacea 3,89 mg/l/48h Daphnia magna 32,7 mg/l/72h Chlorella vulgaris EC50 - for Algae / Aquatic Plants

#### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

#### **TURPENTINE**

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment

XYLENE (MIXTURE OF ISOMERS)

100 - 1000 mg/l Solubility in water

Degradability: information not available

**TURPENTINE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

0,1 - 100 mg/l Solubility in water

Rapidly degradable

CYCLOHEXANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

**TOLUENE** 

100 - 1000 mg/l Solubility in water

Rapidly degradable

**CYCLOHEXANOL** 36000 mg/l Solubility in water

Rapidly degradable

**ACETONE** 

Rapidly degradable

CYCLOHEXANONE

0,1 - 100 mg/l Solubility in water

Rapidly degradable

ETHYL ACETATE > 10000 mg/l Solubility in water

Rapidly degradable

N-BUTYL ACETATE

Solubility in water 1000 - 10000 mg/l

#### 12.3. Bioaccumulative potential

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### SECTION 12. Ecological information .../>>

	XYLENE (MIXTURE OF ISOMERS) Partition coefficient: n-octanol/water BCF	3,12 25,9
	ROSIN Partition coefficient: n-octanol/water BCF	3 56,23
	CYCLOHEXANE Partition coefficient: n-octanol/water	3,44
	TOLUENE Partition coefficient: n-octanol/water BCF	2,73 90
	CYCLOHEXANOL Partition coefficient: n-octanol/water	1,25
	ACETONE Partition coefficient: n-octanol/water BCF	-0,23 3
	CYCLOHEXANONE Partition coefficient: n-octanol/water	0,86
	ETHYL ACETATE Partition coefficient: n-octanol/water BCF	0,68 30
	N-BUTYL ACETATE Partition coefficient: n-octanol/water BCF	2,3 15,3
12	4 Mobility in soil	

#### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water	2,73
ROSIN Partition coefficient: soil/water	3,7289
CYCLOHEXANE Partition coefficient: soil/water	2,89
CYCLOHEXANONE Partition coefficient: soil/water	1,18
N-BUTYL ACETATE Partition coefficient: soil/water	< 3

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

### 12.6. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

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### **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, IATA: 1263

#### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

IMDG: PAINT or PAINT RELATED MATERIAL (TURPENTINE)

PAINT or PAINT RELATED MATERIAL IATA:

#### 14.3. Transport hazard class(es)

ADR / RID: Label: 3 Class: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



#### 14.4. Packing group

ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID: **Environmentally Hazardous** 

IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special provision: 640D

IMDG: EMS: F-E, S-E Limited Quantities: 5 L IATA: Maximum quantity: 60 L

Packaging instructions: 364 Cargo: Pass.: Maximum quantity: 5 L Packaging instructions: 353

> Special provision: A3, A72, A192

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c-E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

3 - 40 Point

@EPY 10.1.6 - SDS 1004.13

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### SECTION 15. Regulatory information ..../>>

Contained substance

Point 57 CYCLOHEXANE
Point 48 TOLUENE

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0.1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

#### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Flam. Sol. 1 Flammable solid, category 1
Repr. 2 Reproductive toxicity, category 2
Acute Tox. 4 Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Dam. 1 Serious eye damage, category 1
Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1Skin sensitization, category 1Skin Sens. 1BSkin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

**H228** Flammable solid.

**H361d** Suspected of damaging the unborn child.

H302 Harmful if swallowed. H312 Harmful in contact with skin.

H332 Harmful if inhaled.

**H304** May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

H335 May cause respiratory irritation.
 H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

LEGEND:

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#### SECTION 16. Other information .../>>

- ADR: European Agreement concerning the carriage of Dangerous goods by Road- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Regulation (EU) 2020/217 (XIV Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

ΕN

### **COLOROBBIA**

## **COLOROBBIA ITALIA S.P.A.**

## LAP--000008 - Lustro Arancio Chiaro

Revision nr.15 Dated 22/09/2020 Printed on 02/07/2021 Page n. 20 / 20 Replaced revision:14 (Dated 22/09/2020)

### SECTION 16. Other information .../>>

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 02 / 08 / 09 / 14.

## COLOROBBIA ITALIA S.P.A.

### OMC--001180 - Oro Matt

Printed on 02/07/2021 Page n. 1 / 23

Replaced revision:14 (Dated 06/11/2015)

### **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

OMC--001180 Code: Product name **Oro Matt** 

Prodotto metallo-organico per decorazione al terzo fuoco

1.2. Relevant identified uses of the substance or mixture and uses advised against

third firing decoration in the glass/ceramics/porcelain sectors Intended use

1.3. Details of the supplier of the safety data sheet

COLOROBBIA ITALIA S.P.A. Name

Full address via Pietramarina 53

50053 Sovigliana - Vinci **District and Country** (FI)

Italia

+39 0571 7091 Tel. +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

> Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Reproductive toxicity, category 1B	H360Df	May damage the unborn child. Suspected of damaging fertility.
Acute toxicity, category 4	H302	Harmful if swallowed.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very toxic to aquatic life with long lasting effects.

## **COLOROBBIA ITALIA S.P.A.**

## OMC--001180 - Oro Matt

Revision nr.15 Dated 15/10/2020 Printed on 02/07/2021 Page n. 2 / 23

Page n. 2 / 23 Replaced revision:14 (Dated 06/11/2015)

### SECTION 2. Hazards identification

n .../>>

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:











Signal words: Danger

Hazard statements:

**H226** Flammable liquid and vapour.

**H360Df** May damage the unborn child. Suspected of damaging fertility.

H302 Harmful if swallowed.

**H304** May be fatal if swallowed and enters airways.

H318 Causes serious eye damage. H315 Causes skin irritation.

**H317** May cause an allergic skin reaction.

**H410** Very toxic to aquatic life with long lasting effects.

**EUH208** Contains: L - alpha - pinen

Malaleuca alternifolia extract

terpinolen (-)-Pin-2(10)-Ene ROSIN Eugenol Alpha-Pinene

May produce an allergic reaction.

Restricted to professional users.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

**P201** Obtain special instructions before use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P310 Immediately call a POISON CENTER / doctor / . . .

Contains: TETRAHYDROFURFURYL ALCOHOL

TURPENTINE SILVER OXIDE Anethole Eucalyptus Oil

ROSIN

(R)-P-MENTHA-1,8-DIENE Eucaliptus globulus oil

Eucaliptol Linalool

#### 2.3. Other hazards

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

#### FΝ

### **COLOROBBIA**

## COLOROBBIA ITALIA S.P.A.

OMC--001180 - Oro Matt

Revision nr.15 Dated 15/10/2020 Printed on 02/07/2021 Page n. 3 / 23

Replaced revision:14 (Dated 06/11/2015)

### **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification Classification 1272/2008 (CLP) x = Conc. %

Au Resinate

CAS  $9 \le x < 25$ 

945-694-4 EC

INDEX

**CHLOROBENZENE** 

CAS 108-90-7 5 ≤ x < 9

EC 203-628-5 INDEX 602-033-00-1 Reg. no. 01-2119432722-45

SILVER OXIDE

CAS 20667-12-3  $5 \le x < 9$ 

Ox. Sol. 1 H271, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=1

EC 243-957-1

INDFX

01-2119513370-54-xxxx Reg. no.

**Synthetic Camphor** 

CAS 76-22-2  $5 \le x < 9$ Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

**STOT SE 3 H335** 

Flam. Sol. 1 H228

EC 200-945-0

INDEX

**Eucalyptus Oil** 

8000-48-4 5 < x < 9Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411 CAS

EC INDEX

**TURPENTINE** 

8006-64-2  $5 \le x < 9$ Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, CAS

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Flam. Liq. 3 H226, Acute Tox. 4 H332, Skin Irrit. 2 H315, Aquatic Chronic 2 H411

Aquatic Chronic 2 H411

EC 232-350-7 650-002-00-6 **INDEX** 01-2119553060-53 Reg. no.

ROSIN

8050-09-7 5 ≤ x < 9 Skin Sens. 1 H317 CAS

EC 232-475-7 INDEX 650-015-00-7

01-2119480418-32-XXXX Reg. no.

Linalool

CAS 78-70-6 1≤x< 5

FC 201-134-4

**INDEX** 

01-2119474016-42-0000 Reg. no.

Decahydronaphthalene

CAS 91-17-8  $1 \le x < 2.5$ 

EC 202-046-9

INDEX

Rea. no. 01-2119565127-37-XXXX

Eucaliptus globulus oil

CAS 84625-32-1  $1 \le x < 2.5$ 

EC 283-406-2

INDEX

Reg. no. 2119978250-37-0000

(R)-P-MENTHA-1,8-DIENE

CAS 5989-27-5  $1 \le x < 2.5$  Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1,

Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=10

Classification note/notes according to Annex VI to the CLP Regulation: C

Flam. Lig. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314,

Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 227-813-5 **INDEX** 601-029-00-7

01-2119529223-47-000 Reg. no.

@EPY 10.1.6 - SDS 1004.13

#### FΝ

### **COLOROBBIA**

## COLOROBBIA ITALIA S.P.A.

## OMC--001180 - Oro Matt

Revision nr.15 Dated 15/10/2020 Printed on 02/07/2021 Page n. 4 / 23

Replaced revision:14 (Dated 06/11/2015)

#### **SECTION 3. Composition/information on ingredients**

**BENZYL ALCOHOL** 

CAS 100-51-6 1≤x< 5 Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319

EC 202-859-9 INDEX 603-057-00-5

01-2119492630-38-0000

Reg. no. Anethole

CAS 104-46-1 1 ≤ x < 5 Skin Sens. 1 H317

EC 2032055

INDEX

**Eucaliptol** CAS

470-82-6 1 ≤ x < 5

FC 207-431-5

**INDEX** 

Reg. no. 01-2119967772-24-0000

**CYCLOHEXANOL** 

108-93-0 CAS 1 < x < 5

EC 203-630-6 INDEX 603-009-00-3

Reg. no. 01-2119447488-26-XXXX

Alpha-Pinene

CAS 80-56-8 Flam. Liq. 3 H226, Acute Tox. 4 H302, Asp. Tox. 1 H304, Skin Irrit. 2 H315,  $0,5 \le x < 1$ 

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

Flam. Liq. 3 H226, Skin Sens. 1 H317

Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

EC 201-291-8

**INDEX** 

01-2119519223-49-0000 Rea. no. TETRAHYDROFURFURYL ALCOHOL

CAS 97-99-4  $0.5 \le x < 1$ Repr. 1B H360Df, Eye Irrit. 2 H319

FC 202-625-6

INDEX 603-061-00-7

Eugenol

Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1 H317 CAS 97-53-0  $0.5 \le x < 1$ 

EC

INDEX

4-METHYLPENTAN-2-ONE

CAS 108-10-1  $0.5 \le x < 1$ Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066 EC 203-550-1

INDEX 606-004-00-4 Reg. no. 01-2119473980-30

Camphene

CAS 79-92-5  $0.5 \le x < 1$ Flam. Sol. 1 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1 EC 201-234-8

INDEX

Reg. no. 01-2119446293-40-XXXX

ROSIN

CAS 8050-09-7  $0 \le x < 0.5$ Skin Sens. 1 H317

EC 232-475-7

INDEX 650-015-00-7

01-2119480418-32-XXXX Rea. no.

(-)-Pin-2(10)-Ene

CAS 127-91-3  $0 \le x < 0.5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 242-060-2

INDEX

2-METHOXY-1-METHYLETHYL ACETATE

CAS 108-65-6  $0 \le x < 0.5$ Flam. Liq. 3 H226

EC 203-603-9 607-195-00-7 INDEX

01-2119475791-29-XXXX Reg. no.

terpinolen

CAS 586-62-9  $0 \le x < 0.25$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

EC 209-578-0

INDFX

01-2119982325-32-XXXX Reg. no.

CYCLOHEXANONE

Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, CAS 108-94-1  $0 \le x < 0.5$ 

Aquatic Chronic 1 H410 M=1

Eye Dam. 1 H318, Skin Irrit. 2 H315

203-631-1 FC INDEX 606-010-00-7

@EPY 10.1.6 - SDS 1004.13

### COLOROBBIA ITALIA S.P.A.

### OMC--001180 - Oro Matt

Printed on 02/07/2021 Page n. 5 / 23

Replaced revision:14 (Dated 06/11/2015)

#### **SECTION 3. Composition/information on ingredients**

01-2119453616-35 Reg. no. Malaleuca alternifolia extract

CAS 85085-48-9  $0 \le x < 0.25$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC INDEX

L - alpha - pinen

CAS 7785-26-4  $0 \le x < 0.25$ Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aguatic Acute 1 H400 M=1,

Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

Aquatic Chronic 1 H410 M=1

232-077-3 FC

INDEX

**DIESEL OIL - not specified** 

68476-34-6  $0 \le x < 0.5$ Carc. 2 H351 CAS

FC 270-676-1 INDEX 649-227-00-2

**TOLUENE** 

108-88-3  $0 \le x < 0.5$ Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, CAS

Skin Irrit, 2 H315, STOT SE 3 H336

EC 203-625-9 INDEX 601-021-00-3

**N-BUTYL ACETATE** 

CAS 123-86-4  $0 \le x < 0.5$ 

EC 204-658-1 607-025-00-1 INDEX Reg. no. 01-2119485493-29 XYLENE (MIXTURE OF ISOMERS)

CAS 1330-20-7  $0 \le x < 0.5$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Classification note/notes according to Annex VI to the CLP Regulation: C

INDEX 601-022-00-9

EC 215-535-7

The full wording of hazard (H) phrases is given in section 16 of the sheet.

#### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

#### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

## COLOROBBIA ITALIA S.P.A.

## OMC--001180 - Oro Matt

Printed on 02/07/2021 Page n. 6 / 23 Replaced revision:14 (Dated 06/11/2015)

#### .../>> **SECTION 5. Firefighting measures**

#### 5.3. Advice for firefighters

#### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

#### **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

#### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

България МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА **BGR** ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)

CZE Česká Republika Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,

kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů

DFU Deutschland TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und

Kurzzeitwerte

# COLOROBBIA ITALIA S.P.A.

# OMC--001180 - Oro Matt

Revision nr.15 Dated 15/10/2020 Printed on 02/07/2021 Page n. 7 / 23 Replaced revision:14 (Dated 06/11/2015)

### **SECTION 8. Exposure controls/personal protection**

ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
		protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a
		agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12
		czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006
		privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției
		lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju
	, <b>,</b> .	delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
TUR	Türkiye	23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenlenmiştir
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU)
	322 20	2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
		20 17/2000, Directive (E0) 20 17/10-1, Directive 2000/10/120, Directive 2000/10/120, Directive

2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. TLV-ACGIH **ACGIH 2020** 

				CHLOR	OBENZENI	E
Threshold Limit \	/alue					
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	23	5	70	15	
TLV	CZE	25	6,8	70	19,04	
AGW	DEU	23	5	46	10	
MAK	DEU	23	5	46	10	
VLA	ESP	23	5	70	15	
VLEP	FRA	23	5	70	15	
TLV	GRC	23	5	70	15	
VLEP	ITA	23	5	70	15	
TGG	NLD	23		70		
VLE	PRT	23	5	70	15	
NDS/NDSCh	POL	23		70		
TLV	ROU	23	5	70	15	
MV	SVN	23	5	69	15	
ESD	TUR	23	5	70	15	
WEL	GBR	4,7	1	14	3	SKIN
OEL	EU	23	5	70	15	
TLV-ACGIH		46	10			

				SILVER OXIDE		
Thurson booked I has	:4 \/ala					
Threshold Lim	it value					
Type	Country	TWA/8h		STEL/15min	Remarks / Observations	
	,	mg/m3	ppm	mg/m3 ppm		
TI V-ACGIH		0.01				

				Synthet	ic Campho	or
Threshold Limit \	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		13	2	19	3	

# COLOROBBIA ITALIA S.P.A.

## OMC--001180 - Oro Matt

Revision nr.15 Dated 15/10/2020 Printed on 02/07/2021 Page n. 8 / 23 Replaced revision:14 (Dated 06/11/2015)

SECTION 8. Exposure controls/personal protection

1>>

				TUR	PENTINE		
Threshold Limit V	/alue						
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	300					
TLV	CZE	300		800			
VLA	ESP	113	20				
VLEP	FRA	560	100				
TLV	GRC	560	100	840	150		
TGG	NLD	560					
NDS/NDSCh	POL	112		300			
TLV	ROU	400		500		SKIN	
MV	SVN	560	100	560	100	SKIN	
WEL	GBR	566	100	850	150		
TLV-ACGIH		111	20				

				ROSIN				
redicted no-effect co	ncentration	- PNEC						
Normal value in fresh	n water					0,002	mg/l	
Normal value in mari	ne water					0,0002	mg/l	
Normal value for fres	h water sed	iment				0,007	mg/kg/d	
Normal value for mar	rine water se	ediment				0,001	mg/kg/d	
Normal value for the	terrestrial co	ompartment				0,00031	mg/kg/d	
lealth - Derived no-eff	ect level - D	ONEL / DMEL						
	Effects o	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation				1,065			10	
				mg/kg			mg/m3	
Skin				1,065				2,131
				mg/kg bw/d				mg/kg
								bw/d

				Decahydro	naphthalene		
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15m	nin	Remarks / Observations	
	-	mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH		100					

				(R)-P-MEN	THA-1,8-DII	ENE
<b>Threshold Lin</b>	nit Value					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	28	5	112	20	SKIN
MAK	DEU	28	5	112	20	SKIN
VLA	ESP	168	30			SKIN
MV	SVN	28	5	112	20	SKIN

				BENZYI	_ ALCOHO	L	
Threshold Limit \	/alue						
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	5					
TLV	CZE	40	8,88	80	17,76		
AGW	DEU	22	5	44	10	SKIN 11	
NDS/NDSCh	POL	240					
MV	SVN	22	5	44	10	SKIN	

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				CYCLC	HEXANO		
Threshold Limit V	/alue						
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	200					
TLV	CZE	200	48	400	94	SKIN	
VLA	ESP	208	50			SKIN	
VLEP	FRA	200	50	300	75		
TLV	GRC	200	50				
TGG	NLD		1				
NDS/NDSCh	POL	10				SKIN	
TLV	ROU	100	25	200	50	SKIN	
MV	SVN	210	50	840	200	SKIN	
WEL	GBR	208	50				
TLV-ACGIH		205	50			SKIN	

				4-METHYLF	PENTAN-2-	ONE	
Threshold Limit \	/alue						
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	50		200			
TLV	CZE	80	19,2	200	48	SKIN	
AGW	DEU	83	20	166	40	SKIN	
MAK	DEU	83	20	166	40	SKIN	
VLA	ESP	83	20	208	50		
VLEP	FRA	83	20	208	50		
TLV	GRC	410	100	410	100		
VLEP	ITA	83	20	208	50		
TGG	NLD	104		208			
VLE	PRT	83	20	208	50		
NDS/NDSCh	POL	83		200			
TLV	ROU	83	20	208	50		
MV	SVN	83	20	208	50	SKIN	
ESD	TUR	83	20	208	50		
WEL	GBR	208	50	416	100	SKIN	
OEL	EU	83	20	208	50		
TLV-ACGIH		82	20	307	75		

				F	ROSIN				
hreshold Limit Va	lue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
71	,	mg/m3	ppm	mg/m3	ppm				
TLV	CZE	1	• • •	<u> </u>		INHAL			
TLV	ROU	0,1							
WEL	GBR	0,05		0,15					
Predicted no-effect	t concentra	ation - PN	EC						
Normal value in f	fresh water						0,002	mg/l	
Normal value in r	marine wate	er					0,0002	mg/l	
Normal value for	fresh water	sediment					0,007	mg/kg/d	
Normal value for	marine wat	er sedimei	nt				0,001	mg/kg/d	
Normal value of	STP microo	rganisms					1000	mg/l	
Normal value for	the terrestr	ial compar	tment				0,00031	mg/kg/d	
lealth - Derived no	o-effect leve	el - DNEL	/ DMEL						
	Effe	cts on cons	sumers			Effects on w	orkers		
Route of exposur	re Acut	te A	cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sy	/stemic	local	systemic	local	systemic	local	systemic
Oral					1,065				
					mg/kg bw/d				
Inhalation								10	
								mg/m3	
Skin					1,065				2,131
					mg/kg bw/d				mg/kg
									bw/d

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and a fall for the	/-l			THOXI-I-ME	THYLETHYL A	ACEIAIE			
reshold Limit V		T14/4/01		OTEL (45			01 "		
Туре	Country	TWA/8h		STEL/15		Remarks /	Observations		
TIV	DOD	mg/m3	ppm	mg/m3	ppm	CIZINI			
TLV TLV	BGR CZE	275 270	50	550	100	SKIN			
	DEU		49,14	550	100,1	SKIN			
AGW		270	50	270	50				
MAK	DEU	270	50	270	50	OLGINI			
VLA	ESP	275	50	550	100	SKIN			
VLEP	FRA	275	50	550	100	SKIN			
TLV	GRC	275	50	550	100	OLCINI			
VLEP	ITA	275	50	550	100	SKIN			
TGG	NLD	550			100	OLGINI			
VLE	PRT	275	50	550	100	SKIN			
NDS/NDSCh	POL	260		520		SKIN			
TLV	ROU	275	50	550	100	SKIN			
MV	SVN	275	50	550	100	SKIN			
ESD	TUR	275	50	550	100	SKIN			
WEL	GBR	274	50	548	100	SKIN			
OEL	EU	275	50	550	100	SKIN			
edicted no-effe		ation - PNE	C						
Normal value in							0,635	mg/l	
Normal value for							3,29	mg/kg	
Normal value for							0,329	mg/kg	
Normal value of							100	mg/l	
Normal value for							0,29	mg/kg	
alth - Derived r									
		cts on consu				Effects on w			
Route of expos				Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	temic	local	systemic	local	systemic	local	systemic
Oral				VND	1,67 mg/kg				
Inhalation				VND	33 mg/m3			VND	275 mg/m3
Skin				VND	54,8 mg/kg			VND	153,5 mg/kg

				CVCI O	ILLANON	r <del>-</del>
				CYCLO	HEXANON	
Threshold Limit V	/alue					
Туре	Country	TWA/8h	TWA/8h		min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	40,8	10	81,6	20	SKIN
TLV	CZE	40	9,8	80	196	SKIN
AGW	DEU	80	20	80	20	SKIN
VLA	ESP	41	10	82	20	SKIN
VLEP	FRA	40,8	10	81,6	20	
TLV	GRC	200	50	400	100	
VLEP	ITA	40,8	10	81,6	20	SKIN
TGG	NLD			50		SKIN
VLE	PRT	40,8	10	81,6	20	SKIN
NDS/NDSCh	POL	40		80		SKIN
TLV	ROU	40,8	10	81,6	20	SKIN
MV	SVN	40,8	10	81,6	20	SKIN
ESD	TUR	40,8	10	81,6	20	SKIN
WEL	GBR	41	10	82	20	SKIN
OEL	EU	40,8	10	81,6	20	SKIN
TLV-ACGIH		80	20	201	50	SKIN

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.../>>

				TO	LUENE	
Threshold Limit V	/alue					
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	192	50	384	100	SKIN
TLV	CZE	192	50,112	384	100,224	SKIN
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	760	200	SKIN
VLA	ESP	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
TLV	GRC	192	50	384	100	
VLEP	ITA	192	50			SKIN
TGG	NLD	150		384		
VLE	PRT	192	50	384	100	SKIN
NDS/NDSCh	POL	100		200		SKIN
TLV	ROU	192	50	384	100	SKIN
MV	SVN	192	50	384	100	SKIN
ESD	TUR	192	50	384	100	SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH		75,4	20			

				N. DUTY				
				N-BUTY	L ACETATE			
Threshold Limit V								
Туре	Country	TWA/8h		STEL/15r		Remarks / Observations	8	
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	710		950				
TLV	CZE	950	196,65	1200	248,4			
AGW	DEU	300	62	600 (C)	124 (C)			
VLA	ESP	724	150	965	200			
VLEP	FRA	710	150	940	200			
TLV	GRC	710	150	950	200			
TGG	NLD	150						
NDS/NDSCh	POL	240		720				
TLV	ROU	715	150	950	200			
MV	SVN	300	62	600	124			
WEL	GBR	724	150	966	200			
OEL	EU	241	50	723	150			
TLV-ACGIH			50		150			
Predicted no-effe	ct concentra	tion - PNEC	;					
Normal value in	fresh water					0,18	mg/l	
Normal value in	marine water	er				0,018	mg/l	
Normal value for	or fresh water	sediment				0,981	mg/kg	
Normal value for	or marine wat	er sediment				0,0981	mg/kg	
Normal value of	f STP microo	rganisms				35,6	mg/l	
Normal value for	or the terrestr	ial compartm	ent			0,0903	mg/kg	

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### SECTION 8. Exposure controls/personal protection

	XYLENE (MIXTURE OF ISOMERS)								
Threshold Limit V	'alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	221	50	442	100	SKIN			
TLV	CZE	200	45,4	400	90,8	SKIN			
AGW	DEU	440	100	880	200	SKIN			
MAK	DEU	440	100	880	200	SKIN			
VLA	ESP	221	50	442	100	SKIN			
VLEP	FRA	221	50	442	100	SKIN			
TLV	GRC	435	100	650	150				
VLEP	ITA	221	50	442	100	SKIN			
TGG	NLD	210		442		SKIN			
VLE	PRT	221	50	442	100	SKIN			
NDS/NDSCh	POL	100		200		SKIN			
TLV	ROU	221	50	442	100	SKIN			
MV	SVN	221	50	442	100	SKIN			
ESD	TUR	221	50	442	100	SKIN			
WEL	GBR	220	50	441	100	SKIN			
OEL	EU	221	50	442	100	SKIN			
TLV-ACGIH		434	100	651	150				

#### Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9. Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Properties Value Information
Appearance liquid

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### SECTION 9. Physical and chemical properties ..../>

Colour brown Odour characteristic Odour threshold Not available рΗ Not applicable Melting point / freezing point Not available Initial boiling point Not available Not available Boiling range 35 < T ≤ 38 Flash point °C **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Vapour density Not available Relative density Not available insoluble in water Solubility Partition coefficient: n-octanol/water Not available Not applicable Auto-ignition temperature Decomposition temperature Not available Not applicable Viscosity Explosive properties Not available Oxidising properties Not available

### 9.2. Other information

VOC (Directive 2010/75/EC): 25.54 % - 255.43 a/litre

### **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

### **TURPENTINE**

Dissolves rubber.

### BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

### 4-METHYLPENTAN-2-ONE

Reacts violently with: light metals. Attacks various types of plastic materials.

### 2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

### **CYCLOHEXANONE**

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

### **TOLUENE**

Avoid exposure to: light.

### N-BUTYL ACETATE

Decomposes on contact with: water.

### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

### **TURPENTINE**

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid. fluorine.

In oxygen atmospheres it generates explosive peroxides.

### BENZYL ALCOHOL

May react dangerously with: hydrobromic acid,iron,oxidising agents, sulphuric acid. Risk of explosion on contact with: phosphorus

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### SECTION 10. Stability and reactivity .../>>

trichloride.

**CYCLOHEXANOL** 

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals,chromium trioxide. Forms explosive mixtures with: air.

4-METHYLPENTAN-2-ONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

**CYCLOHEXANONE** 

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

**TOLUENE** 

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids. sulphur.

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

#### 10.4. Conditions to avoid

Avoid overheating.

BENZYL ALCOHOL

Avoid exposure to: air, sources of heat, naked flames.

**CYCLOHEXANOL** 

Avoid exposure to: sources of heat,naked flames.

4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

**CYCLOHEXANONE** 

Avoid exposure to: sources of heat,naked flames.

N-BUTYL ACETATE

Avoid exposure to: moisture, sources of heat, naked flames.

### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

BENZYL ALCOHOL

Incompatible with: sulphuric acid,oxidising substances,aluminium.

CYCLOHEXANOL

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkaline metals.

N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

**TURPENTINE** 

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Eugenol

Informazioni riferite all'eugenolo:

LD50 orale ratto 2650 mg/Kg

LD50 dermale coniglio 5000 mg/Kg.

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### SECTION 11. Toxicological information .../>>

Eugenol

Informazioni riferite all'eugenolo: LD50 orale ratto 2650 mg/Kg LD50 dermale coniglio 5000 mg/Kg.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

### 2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

### Information on likely routes of exposure

2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

**TOLUENE** 

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### 2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

### **TOLUENE**

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

### N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

### XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

### Interactive effects

### **TOLUENE**

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

### N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

### XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

### ACUTE TOXICITY

#### ΕN

## **COLOROBBIA**

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### SECTION 11. Toxicological information .../>>

ATE (Inhalation) of the mixture: > 20 mg/l ATE (Oral) of the mixture: 1997,40 mg/kg ATE (Dermal) of the mixture: >2000 mg/kg

XYLENE (MIXTURE OF ISOMERS)

3523 mg/kg Rat LD50 (Oral) 4350 mg/kg Rabbit LD50 (Dermal) 26 mg/l/4h Rat LC50 (Inhalation)

**TURPENTINE** 

5760 mg/kg Rat LD50 (Oral)

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Oral) 8530 mg/kg Rat LD50 (Dermal) > 5000 mg/kg Rat

**TOLUENE** 

LD50 (Oral) 5580 mg/kg Rat LD50 (Dermal) 12124 mg/kg Rabbit LC50 (Inhalation) 28,1 mg/l/4h Rat

**CHLOROBENZENE** 

> 2000 mg/kg Rat LD50 (Oral) LC50 (Inhalation) 15,5 mg/l/4h Rat

BENZYL ALCOHOL

1230 mg/kg Rat LD50 (Oral) LD50 (Dermal) 2000 mg/kg Rabbit > 4,1 mg/l/4h Rat LC50 (Inhalation)

TETRAHYDROFURFURYL ALCOHOL

LD50 (Oral) 1600 mg/kg Rat

4-METHYLPENTAN-2-ONE

LD50 (Oral) 2080 mg/kg Rat LD50 (Dermal) > 16000 mg/kg Rabbit > 8,2 mg/l/4h Rat LC50 (Inhalation)

N-BUTYL ACETATE

LD50 (Oral) > 6400 mg/kg Rat LD50 (Dermal) > 5000 mg/kg Rabbit LC50 (Inhalation) 21,1 mg/l/4h Rat

### SKIN CORROSION / IRRITATION

Causes skin irritation

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin May produce an allergic reaction. Contains:

L - alpha - pinen

Malaleuca alternifolia extract

terpinolen

(-)-Pin-2(10)-Ene

**ROSIN** 

Eugenol

Alpha-Pinene

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

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SECTION 11. Toxicological information .../>>

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

**TOLUENE** 

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

### XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

### REPRODUCTIVE TOXICITY

May damage the unborn child - Suspected of damaging fertility

### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### ASPIRATION HAZARD

Toxic for aspiration

### **SECTION 12. Ecological information**

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity

SILVER OXIDE

LC50 - for Fish 0,0012 mg/l/96h

(R)-P-MENTHA-1,8-DIENE

LC50 - for Fish 35 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 69,6 mg/l/48h Daphnia pulex

**CHLOROBENZENE** 

LC50 - for Fish 7,72 mg/l/96h Pimephales promelas

### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

### TURPENTINE

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Degradability: information not available

**TURPENTINE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

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## **SECTION 12. Ecological information**

**ROSIN** 

0,1 - 100 mg/l Solubility in water

.../>>

Rapidly degradable

(R)-P-MENTHA-1,8-DIENE

0.1 - 100 ma/l Solubility in water

Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

**TOLUENE** 

Solubility in water 100 - 1000 mg/l

Rapidly degradable

CHLOROBENZENE

Solubility in water 100 - 1000 mg/l

NOT rapidly degradable

CYCLOHEXANOL

Rapidly degradable

36000 mg/l Solubility in water

BENZYL ALCOHOL

Rapidly degradable

TETRAHYDROFURFURYL ALCOHOL

Solubility in water > 10000 mg/l

Rapidly degradable

4-METHYLPENTAN-2-ONE

Solubility in water > 10000 mg/l

Rapidly degradable

CYCLOHEXANONE Solubility in water 0,1 - 100 mg/l

Rapidly degradable

N-BUTYL ACETATE

Solubility in water 1000 - 10000 mg/l

### 12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12 **BCF** 25,9

**ROSIN** 

Partition coefficient: n-octanol/water 3 **BCF** 56,23

(R)-P-MENTHA-1,8-DIENE

Partition coefficient: n-octanol/water 4.38 **BCF** 1022

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2

**TOLUENE** 

Partition coefficient: n-octanol/water 2,73 **BCF** 90

**CHLOROBENZENE** 

Partition coefficient: n-octanol/water 3

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**SECTION 12. Ecological information** .../>>

CYCLOHEXANOL

Partition coefficient: n-octanol/water 1,25

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1,1

TETRAHYDROFURFURYL ALCOHOL

Partition coefficient: n-octanol/water -0.14

4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water 1,9

**CYCLOHEXANONE** 

Partition coefficient: n-octanol/water 0,86

N-BUTYL ACETATE

Partition coefficient: n-octanol/water 2,3 BCF 15,3

12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

**ROSIN** 

Partition coefficient: soil/water 3,7289

CHLOROBENZENE

Partition coefficient: soil/water 2,42

4-METHYLPENTAN-2-ONE

Partition coefficient: soil/water 2,008

CYCLOHEXANONE

Partition coefficient: soil/water 1,18

N-BUTYL ACETATE

Partition coefficient: soil/water < 3

### 12.5. Results of PBT and vPvB assessment

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

### 12.6. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

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### **SECTION 14. Transport information**

### 14.1. UN number

ADR / RID, IMDG, IATA: 1263

### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

IMDG: PAINT or PAINT RELATED MATERIAL (CLOROBENZENE)

IATA: PAINT or PAINT RELATED MATERIAL

### 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



### 14.4. Packing group

ADR / RID, IMDG, IATA: III

### 14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special provision: 640E

IMDG:EMS: F-E, S-ELimited Quantities: 5 LIATA:Cargo:Maximum quantity: 220 L

Cargo: Maximum quantity: 220 L Packaging instructions: 366
Pass.: Maximum quantity: 60 L Packaging instructions: 355

Special provision: A3, A72, A192

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c-E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

EPY 10.1.6 - SDS 1004.13

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### **SECTION 15. Regulatory information**

Contained substance

Point 30 TETRAHYDROFURFURYL ALCOHOL

.../>>

Point 48 TOLUENE

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2 Flam. Liq. 3 Flammable liquid, category 3 Flam. Sol. 1 Flammable solid, category 1 Ox. Sol. 1 Oxidising solid, category 1 Carc. 2 Carcinogenicity, category 2 Reproductive toxicity, category 1B Repr. 1B Repr. 2 Reproductive toxicity, category 2 Acute Tox. 3 Acute toxicity, category 3 Acute Tox. 4 Acute toxicity, category 4 Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B Skin corrosion, category 1B
Eye Dam. 1 Serious eye damage, category 1
Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1Skin sensitization, category 1Skin Sens. 1BSkin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

**H225** Highly flammable liquid and vapour. **H226** Flammable liquid and vapour.

**H228** Flammable solid.

**H271** May cause fire or explosion; strong oxidiser.

**H351** Suspected of causing cancer.

H360Df May damage the unborn child. Suspected of damaging fertility.

**H361d** Suspected of damaging the unborn child.

H331 Toxic if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

**H304** May be fatal if swallowed and enters airways.

**H373** May cause damage to organs through prolonged or repeated exposure.

**H314** Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

#### E١

## **COLOROBBIA**

## **COLOROBBIA ITALIA S.P.A.**

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### SECTION 16. Other information .../>>

H335May cause respiratory irritation.H317May cause an allergic skin reaction.H336May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Regulation (EU) 2020/217 (XIV Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

## **COLOROBBIA ITALIA S.P.A.**

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### SECTION 16. Other information .../>>

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.

## **COLOROBBIA ITALIA S.P.A.**

## LIP--000021 - Lustro Madreperla-Iris

Revision nr.13 Dated 12/09/2020 Printed on 06/11/2020 Page n. 1 / 13

Replaced revision:12 (Dated 27/09/2019)

## **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: LIP--000021

Product name Lustro Madreperla-Iris

Prodotto metallo-organico per decorazione al terzo fuoco

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use third firing decoration in the glass/ceramics/porcelain sectors

1.3. Details of the supplier of the safety data sheet

Name COLOROBBIA ITALIA S.P.A.

Full address via Pietramarina 53

District and Country 50053 Sovigliana - Vinci (FI)

Italia

Tel. +39 0571 7091 Fax +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

### **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Acute toxicity, category 4	H302	Harmful if swallowed.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

## COLOROBBIA ITALIA S.P.A.

## LIP--000021 - Lustro Madreperla-Iris

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#### **SECTION 2. Hazards identification** .../>>

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:









Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation. H315 Causes skin irritation. H335 May cause respiratory irritation. H317 May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. H411

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection. P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .

P370+P378 In case of fire: use . . . to extinguish. P273 Avoid release to the environment.

Contains: Eucalyptus Oil

**TURPENTINE** CYCLOHEXANOL

**ROSIN** 

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

### **SECTION 3. Composition/information on ingredients**

### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**ROSIN** 

CAS 8050-09-7  $25 \le x < 40$ Skin Sens. 1 H317

FC 232-475-7 **INDEX** 650-015-00-7

Reg. no. 01-2119480418-32-XXXX

**CYCLOHEXANOL** 

108-93-0 CAS  $20 \le x < 25$ Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

EC 203-630-6 INDEX 603-009-00-3

01-2119447488-26-XXXX Reg. no.

**Eucalyptus Oil** 

CAS 8000-48-4  $10 \le x < 25$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC

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## LIP--000021 - Lustro Madreperla-Iris

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### **SECTION 3. Composition/information on ingredients**

**TURPENTINE** 

8006-64-2 CAS  $10 \le x < 25$ Flam. Lig. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Chronic 2 H411

EC 232-350-7 INDEX 650-002-00-6 Reg. no. 01-2119553060-53

**Organic Titanate** 

CAS 546-68-9  $10 \le x < 20$ 

Eye Irrit. 2 H319, STOT SE 3 H336

**Aquatic Chronic 3 H412** 

Acute Tox. 4 H332

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FC 208-909-6

Reg. no.

01-2119967389-17-xxxx

Abalyn

CAS 68186-14-1 1 ≤ x < 5

EC 269-035-9

INDEX

01-2119969274-28-0001 Reg. no.

Methylcyclohexanol

CAS 25639-42-3 1 ≤ x < 5

FC 247-152-6

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The full wording of hazard (H) phrases is given in section 16 of the sheet.

### **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

### **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

### 5.3. Advice for firefighters

### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **COLOROBBIA ITALIA S.P.A.**

## LIP--000021 - Lustro Madreperla-Iris

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### **SECTION 6. Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

### 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА
CZE	Česká Republika	ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г) Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
ESP	España	kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtliin 2017/164 in Biilage XIII
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici

**GBR** 

# **COLOROBBIA ITALIA S.P.A.**

# LIP--000021 - Lustro Madreperla-Iris

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### SECTION 8. Exposure controls/personal protection

United Kingdom

SVN Slovenija Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju

delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu EH40/2005 Workplace exposure limits (Third edition, published 2018)

TLV-ACGIH **ACGIH 2019** 

				R	OSIN				
Threshold Limit Va	lue								
Туре	Country	TWA/8h		STEL/15r	nin	Remarks / O	bservations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	1				INHAL			
TLV	ROU	0,1							
WEL	GBR	0,05		0,15					
Predicted no-effec	t concentr	ation - PNE	3						
Normal value in t	fresh water	•					0,002	mg/l	
Normal value in	marine wat	er					0,0002	mg/l	
Normal value for	fresh wate	r sediment					0,007	mg/kg/d	
Normal value for	marine wa	ter sediment					0,001	mg/kg/d	
Normal value of	STP micro	organisms					1000	mg/l	
Normal value for							0,00031	mg/kg/d	
Health - Derived no	o-effect lev	rel - DNEL /	DMEL						
	Effe	ects on consu	ımers			Effects on wor	kers		
Route of exposu	re Acu	ıte Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	temic	local	systemic	local	systemic	local	systemic
Oral					1,065				
					mg/kg bw/d				
Inhalation								10	
								mg/m3	
Skin					1,065				2,131
					mg/kg bw/d				mg/kg
									bw/d

	CYCLOHEXANOL									
Threshold Limit V	/alue									
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	BGR	200								
TLV	CZE	200	48	400	94	SKIN				
VLA	ESP	208	50			SKIN				
VLEP	FRA	200	50	300	75					
TLV	GRC	200	50							
TGG	NLD		1							
NDS/NDSCh	POL	10				SKIN				
TLV	ROU	100	25	200	50	SKIN				
MV	SVN	210	50	840	200	SKIN				
WEL	GBR	208	50							
TLV-ACGIH		205	50			SKIN				

TURPENTINE										
Threshold Limit Value										
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	BGR	300								
TLV	CZE	300		800						
VLA	ESP	113	20							
VLEP	FRA	560	100							
TLV	GRC	560	100	840	150					
TGG	NLD	560								
NDS/NDSCh	POL	112		300						
TLV	ROU	400		500		SKIN				
MV	SVN	560	100	560	100	SKIN				
WEL	GBR	566	100	850	150					
TLV-ACGIH		111	20							

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Organic Titanate											
Predicted no-effect concentration - PNEC											
Normal value in fresh	Normal value in fresh water 0,59 mg/l										
Normal value in marir	ne water					0,059	mg/l				
Normal value of STP	microorgan	isms				105	mg/l				
Health - Derived no-effe	Health - Derived no-effect level - DNEL / DMEL										
	Effects of	n consumers			Effects on	workers					
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic			
	local	systemic	local	systemic	local	systemic	local	systemic			
Inhalation							VND	500 mg/m3			

				Abalyn				
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,027	mg/l	
Normal value in marir	ne water					0,003	mg/l	
Normal value for fres	h water sedi	ment				77,05	mg/kg	
Normal value for mar	ine water se	diment				7,7	mg/kg	
Normal value for water	er, intermitte	ent release				0,27	mg/l	
Normal value of STP	microorgani	isms				1,26	mg/l	
Normal value for the	terrestrial co	mpartment				15,35	mg/kg	
Health - Derived no-eff	ect level - D	NEL / DMEL					0 0	
	Effects or	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		•		3,885		•		•
				mg/kg bw/d				
Inhalation							10	VND
							mg/m3	
Skin				3,885			<u> </u>	7,77
				mg/kg bw/d				mg/kg

				Methylc	yclohexanol	
Threshold Limit \	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH			50			

### Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. **EYE PROTECTION** 

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are

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### SECTION 8. Exposure controls/personal protection .../>

required.Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9. Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

**Properties** Value Appearance liauid Colour Not available Odour characteristic Odour threshold Not available рΗ Not available Melting point / freezing point °C Initial boiling point Not available Boiling range Not available Flash point 25 T≤31 °C **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Vapour density Not available Relative density Not available insoluble in water Solubility Partition coefficient: n-octanol/water Not available Not applicable Auto-ignition temperature Decomposition temperature Not available Not available Viscosity Explosive properties Not available Oxidising properties Not available

### Information

### 9.2. Other information

VOC (Directive 2010/75/EC): 41,21 %

### **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

**TURPENTINE** 

Dissolves rubber.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

### CYCLOHEXANOL

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals, chromium trioxide. Forms explosive mixtures with: air.

### **TURPENTINE**

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on

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## **COLOROBBIA**

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### SECTION 10. Stability and reactivity .../>>

contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid, fluorine.

In oxygen atmospheres it generates explosive peroxides.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

**CYCLOHEXANOL** 

Avoid exposure to: sources of heat,naked flames.

### 10.5. Incompatible materials

**CYCLOHEXANOL** 

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

**TURPENTINE** 

May develop: acyclic terpenes,monocyclic terpenes,hydroterpenes,pyrones,cymenes.

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: 1000,00 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

TURPENTINE

LD50 (Oral) 5760 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

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### SECTION 11. Toxicological information .../>>

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

### **SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

### 12.1. Toxicity

Information not available

### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

TURPENTINE

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

**TURPENTINE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

ROSIN

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

CYCLOHEXANOL

Solubility in water 36000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

**ROSIN** 

Partition coefficient: n-octanol/water 3 BCF 56,23

CYCLOHEXANOL

Partition coefficient: n-octanol/water 1,25

### 12.4. Mobility in soil

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#### **SECTION 12. Ecological information** .../>>

**ROSIN** 

3,7289 Partition coefficient: soil/water

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0.1%.

#### 12.6. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

### 14.1. UN number

ADR / RID, IMDG, IATA: 1263

### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

IMDG: PAINT or PAINT RELATED MATERIAL (Eucalyptus Oil)

IATA: PAINT or PAINT RELATED MATERIAL

### 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



### 14.4. Packing group

ADR / RID, IMDG, IATA: Ш

### 14.5. Environmental hazards

ADR / RID: **Environmentally Hazardous** 

IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

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### SECTION 14. Transport information .../>>

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special Provision: IMDG: EMS: F-E, <u>S-E</u> Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 220 L Packaging instructions: 366
Pass.: Maximum quantity: 60 L Packaging instructions: 355

Special Instructions: A3, A72, A192

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c-E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3 Flammable liquid, category 3
Acute Tox. 4 Acute toxicity, category 4
Asp. Tox. 1 Aspiration hazard, category 1
Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1

**Aquatic Chronic 2** Hazardous to the aquatic environment, chronic toxicity, category 2 **Aquatic Chronic 3** Hazardous to the aquatic environment, chronic toxicity, category 3

H226Flammable liquid and vapour.H302Harmful if swallowed.H312Harmful in contact with skin.

H332 Harmful if inhaled.

**H304** May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation. H315 Causes skin irritation.

H335 May cause respiratory irritation.H317 May cause an allergic skin reaction.

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#### .../>> **SECTION 16. Other information**

H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

### ΕN

## **COLOROBBIA**

## **COLOROBBIA ITALIA S.P.A.**

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### SECTION 16. Other information .../>>

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 01 / 03 / 08 / 09.

## **COLOROBBIA S.P.A.**

## LRP--000042 - Lustro Rosso

Revision nr.33 Dated 10/09/2020 Printed on 12/10/2020 Page n. 1 / 16

Replaced revision:32 (Dated 08/09/2020)

## **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: LRP--00042
Product name Lustro Rosso

Prodotto metallo-organico per decorazione al terzo fuoco

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use third firing decoration in the glass/ceramics/porcelain sectors

### 1.3. Details of the supplier of the safety data sheet

Name COLOROBBIA S.P.A.
Full address via Pietramarina 53
District and Country 50053 Sovigliana - Vinci

Italia

Tel. +39 0571 7091 Fax +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

### 1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

(FI)

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

### **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

### Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Acute toxicity, category 4	H302	Harmful if swallowed.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very toxic to aquatic life with long lasting effects.

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### **SECTION 2. Hazards identification**

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:









Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

Causes serious eye irritation. H319 H315 Causes skin irritation.

H335 May cause respiratory irritation. May cause an allergic skin reaction. H317

Very toxic to aquatic life with long lasting effects. H410

**EUH208** SOLVENT RED 1 Contains:

terpinolen L - alpha - pinen DIPENTENE

Malaleuca alternifolia extract

(-)-Pin-2(10)-Ene Anethole Alpha-Pinene

May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection. P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .

P370+P378 In case of fire: use . . . to extinguish. Avoid release to the environment. P273

Contains: **TURPENTINE** 

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Synthetic Camphor Eucalyptus Oil Eugenol

(R)-P-MENTHA-1,8-DIENE Eucaliptus globulus oil

Eucaliptol Linalool

### 2.3. Other hazards

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

#### FΝ

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### **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. %Classification 1272/2008 (CLP)

**Synthetic Camphor** 

CAS 76-22-2  $20 \le x < 25$ Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

**STOT SE 3 H335** 

EC 200-945-0

INDEX **TURPENTINE** 

CAS 8006-64-2  $10 \le x < 25$ 

Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Chronic 2 H411

EC 232-350-7 **INDEX** 650-002-00-6 01-2119553060-53 Rea. no.

Au Resinate

1≤x< 5 Flam. Sol. 1 H228 CAS

EC 945-694-4

INDEX

Eucaliptus globulus oil

CAS 84625-32-1  $2,5 \le x < 5$ Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 283-406-2

INDEX

Reg. no. 2119978250-37-0000

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

64742-82-1  $2,5 \le x < 5$ Flam. Lig. 3 H226, STOT RE 1 H372, Asp. Tox. 1 H304, STOT SE 3 H336, CAS

Aquatic Chronic 2 H411, EUH066, Classification note according to Annex VI to the CLP Regulation: P

EC 919-446-0

**INDEX** 

01-2119458049-33 Reg. no.

**Eucalyptus Oil** 

8000-48-4 CAS  $2.5 \le x < 5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411

Flam. Liq. 3 H226, Skin Sens. 1 H317

FC INDEX **Eucaliptol** 

CAS 470-82-6 1 ≤ x < 5

EC 207-431-5

INDEX

Reg. no. 01-2119967772-24-0000

(R)-P-MENTHA-1,8-DIENE

CAS 5989-27-5  $1 \le x < 2,5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1,

Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

Classification note according to Annex VI to the CLP Regulation: C

FC. 227-813-5 INDEX 601-029-00-7

Reg. no. 01-2119529223-47-000

Linalool

CAS 78-70-6 1 ≤ x < 5

EC 201-134-4

INDEX

01-2119474016-42-0000 Reg. no.

Ag Resinate

CAS 68551-38-2 1 ≤ x < 5 Flam. Sol. 1 H228

EC 271-373-7

INDEX

Decahydronaphthalene

 $1 \le x < 2,5$ Flam. Liq. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314, 91-17-8 CAS

Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=10 202-046-9

EC

INDEX

Reg. no. 01-2119565127-37-XXXX

#### FΝ

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### **SECTION 3. Composition/information on ingredients**

Eugenol

97-53-0 CAS 1 ≤ x < 5 Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1 H317

EC INDEX

Alpha-Pinene

CAS 80-56-8  $0.5 \le x < 1$ Flam. Liq. 3 H226, Acute Tox. 4 H302, Asp. Tox. 1 H304, Skin Irrit. 2 H315,

Skin Sens. 1 H317

Skin Sens. 1 H317, Aguatic Acute 1 H400 M=1, Aguatic Chronic 1 H410 M=1

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 201-291-8

INDEX

01-2119519223-49-0000 Rea. no.

Anethole

CAS 104-46-1  $0.5 \le x < 1$ 

EC 2032055

INDEX

Camphene 79-92-5 0.5 < x < 1

Flam. Sol. 1 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1, CAS

Aquatic Chronic 1 H410 M=1

FC 201-234-8

INDEX

01-2119446293-40-XXXX Reg. no.

(-)-Pin-2(10)-Ene

127-91-3 CAS  $0 \le x < 0.5$ 

242-060-2 EC

INDEX

Malaleuca alternifolia extract

85085-48-9  $0.25 \le x < 0.5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, CAS

Aquatic Chronic 1 H410 M=1

EC INDEX

4-METHYLPENTAN-2-ONE

Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066 CAS 108-10-1  $0 \le x < 0.5$ 

EC 203-550-1 INDEX 606-004-00-4 Reg. no. 01-2119473980-30

**ETHYL ACETATE** 

CAS 141-78-6  $0 \le x < 0.5$ Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

FC 205-500-4 INDEX 607-022-00-5 01-2119475103-46 Rea. no.

**DIPENTENE** 

CAS 138-86-3  $0 \le x < 0.25$ Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1,

Classification note according to Annex VI to the CLP Regulation: C

EC 205-341-0 INDEX 601-029-00-7

L - alpha - pinen

CAS 7785-26-4  $0 \le x < 0.25$ Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC 232-077-3

**INDEX** 

terpinolen

CAS 586-62-9  $0 \le x < 0.25$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC 209-578-0 INDEX

01-2119982325-32-XXXX Reg. no.

**SOLVENT RED 1** 

CAS 1229-55-6  $0 \le x < 0.5$ Carc. 2 H351, Muta. 2 H341, Skin Sens. 1 H317, Aquatic Chronic 4 H413

EC 214-968-9

**INDEX** 

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

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### SECTION 4. First aid measures .../>>

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

### **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

### 5.3. Advice for firefighters

### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

### **SECTION 6. Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

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### **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

### 8.1. Control parameters

Regulatory References:

BGR България МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)  CZE Česká Republika Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů  DEU Deutschland TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und	
CZE Česká Republika Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů	
Kurzzeitwerte	
ESP España LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)	
FRA France Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS	
GRC Ελλάδα ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018	
ITA Italia Decreto Legislativo 9 Aprile 2008, n.81	
NLD Nederland Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,	
2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de	
implementatie van Richtliin 2017/164 in Bijlage XIII	
PRT Portugal Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de	
protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição	а
agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018	
POL Polska ROZPORZADZENIE MINISTRA RODZINY. PRACY I POLITYKI SPOŁECZNEJ z dnia 12	
czerwca 2018 r	
ROU România HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006	
privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protec	
lucrătorilor împotriva riscurilor legate de prezența agenților chimici	, -
SVN Slovenija Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varova	niu
delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu	·,
TUR Türkiye 23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenlenmiştir	
GBR United Kingdom EH40/2005 Workplace exposure limits (Third edition, published 2018)	
EU OEL EU Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU)	
2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive	
2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.	
TLV-ACGIH ACGIH 2019	

				Synthet	ic Camphor		
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH		13	2	19	3		

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### SECTION 8. Exposure controls/personal protection

		/	>	>

	TURPENTINE								
Threshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	300							
TLV	CZE	300		800					
VLA	ESP	113	20						
VLEP	FRA	560	100						
TLV	GRC	560	100	840	150				
TGG	NLD	560							
NDS/NDSCh	POL	112		300					
TLV	ROU	400		500		SKIN			
MV	SVN	560	100	560	100	SKIN			
WEL	GBR	566	100	850	150				
TLV-ACGIH		111	20						

## Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Threshold Lim	iit vaiue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH			100			

				(R)-P-MEN	THA-1,8-E	DIENE
<b>Threshold Limit</b>	Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	28	5	112	20	SKIN
MAK	DEU	28	5	112	20	SKIN
VLA	ESP	168	30			SKIN
MV	SVN	28	5	112	20	SKIN

Decahydronaphthalene									
Threshold Limit	Value								
Type	Country	TWA/8h		STE	STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/n	n3	ppm			
TLV-ACGIH		100							

				4-METHYLP	ENTAN-2	-ONE			
Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	50		200					
TLV	CZE	80	19,2	200	48	SKIN			
AGW	DEU	83	20	166	40	SKIN			
MAK	DEU	83	20	166	40	SKIN			
VLA	ESP	83	20	208	50				
VLEP	FRA	83	20	208	50				
TLV	GRC	410	100	410	100				
VLEP	ITA	83	20	208	50				
TGG	NLD	104		208					
VLE	PRT	83	20	208	50				
NDS/NDSCh	POL	83		200					
TLV	ROU	83	20	208	50				
MV	SVN	83	20	208	50	SKIN			
ESD	TUR	83	20	208	50				
WEL	GBR	208	50	416	100	SKIN			
OEL	EU	83	20	208	50				
TLV-ACGIH		82	20	307	75				

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#### SECTION 8. Exposure controls/personal protection .../

				ETHYI	ACETATE				
Threshold Limit V	'alue								
Type	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
•	-	mg/m3	ppm	mg/m3	ppm				
TLV	BGR	734	200	1468	400				
TLV	CZE	700	191,1	900	245,7				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	734	200	1468	400				
TLV	GRC	734	200	1468	400				
TGG	NLD	734		1468					
VLE	PRT	734	200	1468	400				
NDS/NDSCh	POL	734		1468					
TLV	ROU	400	111	500	139				
MV	SVN	734	200	1468	400				
WEL	GBR	734	200	1468	400				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
Predicted no-effe	ct concentra	ation - PNE	С						
Normal value in	fresh water						0,26	mg/l	
Normal value in	marine water	er					0,026	mg/l	
Normal value for	r fresh water	rsediment					1,25	mg/kg	
Normal value for	or marine wat	ter sedimen	t				0,125	mg/kg	
Normal value of	f STP microc	rganisms					650	mg/l	
Normal value for	or the food ch	ain (second	lary poisoni	ng)			0,2	g/Kg	
Normal value for	or the terrestr	ial comparti	ment				0,24	mg/kg	
Health - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on we	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	stemic	local	systemic	local	systemic	local	systemic
Oral				VND	4,5 mg/kg				
Inhalation	734	73	4	VND	367	1468	1468	734	734
	mg/	m3 mg	ı/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin				VND	37 mg/kg	-	-	VND	63 mg/kg

#### \_egend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are

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### SECTION 8. Exposure controls/personal protection .../>

required.Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9. Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Properties** Value Appearance liauid Colour Not available Odour characteristic Odour threshold Not available рΗ Not available Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point 39 T≤43 °C **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Vapour density Not available Relative density Not available insoluble in water Solubility Partition coefficient: n-octanol/water Not available Not applicable Auto-ignition temperature Decomposition temperature Not available Not available Viscosity Explosive properties Not available Oxidising properties Not available

9.2. Other information

VOC (Directive 2010/75/EC): 22,66 %

### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

**TURPENTINE** 

Dissolves rubber.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Stable in normal conditions of use and storage.

4-METHYLPENTAN-2-ONE

Reacts violently with: light metals. Attacks various types of plastic materials.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

#### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

### 10.3. Possibility of hazardous reactions

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#### SECTION 10. Stability and reactivity .../>>

See paragraph 10.1.

#### **TURPENTINE**

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid. fluorine.

In oxygen atmospheres it generates explosive peroxides.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Avoid contact with: strong oxidising agents.

May form explosive mixtures with: strong oxidising agents, chlorates, perchlorates, liquid oxygen.

Fire hazard.

#### 4-METHYLPENTAN-2-ONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

#### **ETHYL ACETATE**

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

#### 10.4. Conditions to avoid

Avoid overheating.

#### 4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

#### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

Incompatible with: acids,bases,strong oxidants,nitrates,chlorosulphuric acid,aluminium.Incompatible materials: plastic materials.

#### 4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

#### TURPENTINE

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Eugenol

Informazioni riferite all'eugenolo:

LD50 orale ratto 2650 mg/Kg

LD50 dermale coniglio 5000 mg/Kg.

Eugenol

Informazioni riferite all'eugenolo:

LD50 orale ratto 2650 mg/Kg

LD50 dermale coniglio 5000 mg/Kg.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### FΝ

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### SECTION 11. Toxicological information .../>>

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

NOAEL: 300 mg/Kg (cronic, oral, male animal, 2 years); LOAEC (inhalation, vapour, 90 dyes): 345 ppm; NOAEC(inhalation, rat, vapour): 300 mg/m3; NOAEL (oral, rat, 90 dyes): >= 495 mg/Kg; NOAEC (inhalation, rat, vapour, 90 dyes): 690 ppm; NOAEL (subacute, oral, female animal, 28 dyes): 1056 mg/Kg.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l ATE (Oral) of the mixture: 909,09 mg/kg ATE (Dermal) of the mixture: >2000 mg/kg

**TURPENTINE** 

LD50 (Oral) 5760 mg/kg Rat

4-METHYLPENTAN-2-ONE

LD50 (Oral) 2080 mg/kg Rat > 16000 mg/kg Rabbit LD50 (Dermal) LC50 (Inhalation) > 8,2 mg/l/4h Rat

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%) LD50 (Oral) > 15000 mg/kg Rat LD50 (Dermal) > 4 ml/Kg Rat

#### SKIN CORROSION / IRRITATION

Causes skin irritation

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin May produce an allergic reaction. Contains: SOLVENT RED 1

terpinolen L - alpha - pinen

**DIPENTENE** 

Malaleuca alternifolia extract

(-)-Pin-2(10)-Ene

Anethole Alpha-Pinene

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE

May cause respiratory irritation

### STOT - REPEATED EXPOSURE

May cause damage to organs

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### SECTION 11. Toxicological information .../>>

ASPIRATION HAZARD

Toxic for aspiration

### **SECTION 12. Ecological information**

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

#### 12.1. Toxicity

(R)-P-MENTHA-1,8-DIENE

35 mg/l/96h Oncorhynchus mykiss LC50 - for Fish EC50 - for Crustacea 69,6 mg/l/48h Daphnia pulex

**DIPENTENE** 

80 mg/l/96h Oncorhynchus mykiss LC50 - for Fish EC50 - for Crustacea 17 mg/l/48h Daphnia magna

#### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

**TURPENTINE** 

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

TURPENTINE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

(R)-P-MENTHA-1,8-DIENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

DIPENTENE

NOT rapidly degradable

4-METHYLPENTAN-2-ONE

> 10000 mg/l Solubility in water

Rapidly degradable

ETHYL ACETATE Solubility in water > 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

(R)-P-MENTHA-1,8-DIENE

Partition coefficient: n-octanol/water 4,38 **BCF** 1022

**DIPENTENE** 

Partition coefficient: n-octanol/water 4,5

4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water 1,9

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 **BCF** 30

# **COLOROBBIA**

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#### SECTION 12. Ecological information .../>>

#### 12.4. Mobility in soil

4-METHYLPENTAN-2-ONE

2,008 Partition coefficient: soil/water

#### 12.5. Results of PBT and vPvB assessment

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

#### 12.6. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, IATA: 1263

### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

IMDG: PAINT or PAINT RELATED MATERIAL (TURPENTINE)

IATA: PAINT or PAINT RELATED MATERIAL

### 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



#### 14.4. Packing group

ADR / RID, IMDG, IATA: Ш

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#### SECTION 14. Transport information .../>>

#### 14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special Provision: -

IMDG: EMS: F-E, <u>S-E</u> Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 220 L Packaging instructions: 366
Pass.: Maximum quantity: 60 L Packaging instructions: 355

Special Instructions: A3, A72, A192

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c-E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Flam. Sol. 1 Flammable solid, category 1
Carc. 2 Carcinogenicity, category 2

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#### SECTION 16. Other information .../>>

Muta. 2 Germ cell mutagenicity, category 2

Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B Skin corrosion, category 1B Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1Skin sensitization, category 1Skin Sens. 1BSkin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 4 Hazardous to the aquatic environment, chronic toxicity, category 4

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

**H228** Flammable solid.

H351 Suspected of causing cancer.H341 Suspected of causing genetic defects.

H331 Toxic if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

**H304** May be fatal if swallowed and enters airways.

**H373** May cause damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation

H319 Causes serious eye irritation.
 H315 Causes skin irritation.
 H335 May cause respiratory irritation.
 H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.

H413 May cause long lasting harmful effects to aquatic life.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds

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### SECTION 16. Other information .../>>

- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation- WGK: Water hazard classes (German).

#### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12

Changes to previous review:

The following sections were modified:

03.

# **COLOROBBIA S.P.A.**

# **DIL--000017 - Diluente**

Revision nr.15 Dated 09/09/2020 Printed on 12/10/2020 Page n. 1 / 14

Replaced revision:14 (Dated 30/06/2017)

# **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: DIL--000017
Product name Diluente
Diluente

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use third firing decoration in the glass/ceramics/porcelain sectors

### 1.3. Details of the supplier of the safety data sheet

Name COLOROBBIA S.P.A.
Full address via Pietramarina 53
District and Country 50053 Sovigliana - Vinci

Italia

Tel. +39 0571 7091 Fax +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

(FI)

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

### **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

### Hazard classification and indication:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Acute toxicity, category 3	H331	Toxic if inhaled.
Acute toxicity, category 4	H302	Harmful if swallowed.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very toxic to aquatic life with long lasting effects.

# COLOROBBIA S.P.A.

# **DIL--000017 - Diluente**

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#### **SECTION 2. Hazards identification** .../>>

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:











Signal words: Danger

Hazard statements:

H225 Highly flammable liquid and vapour. H351 Suspected of causing cancer.

H331 Toxic if inhaled. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

**EUH208** Contains: Citronella Oil, Java

May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

P331 Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

Contains: 1,2,3,4-tetrahydronaphthalene

Decahydronaphthalene

TURPENTINE **CYCLOHEXANE** 

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

### **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**CYCLOHEXANE** 

110-82-7 40 < x < 60Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, CAS

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 FC. 203-806-2

INDEX 601-017-00-1

**TURPENTINE** 

CAS 8006-64-2  $10 \le x < 25$ 

Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Chronic 2 H411

FC 232-350-7 **INDEX** 650-002-00-6

@EPY 10.1.6 - SDS 1004.13

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#### **SECTION 3. Composition/information on ingredients**

Reg. no. 01-2119553060-53

Decahydronaphthalene

CAS 91-17-8 15 ≤ x < 25 Flam. Liq. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314,

Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=10

EC 202-046-9

INDEX

Reg. no. 01-2119565127-37-XXXX

ETHYL ACETATE

CAS 141-78-6 5 ≤ x < 9 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 205-500-4 INDEX 607-022-00-5 Reg. no. 01-2119475103-46 1,2,3,4-tetrahydronaphthalene

CAS 119-64-2 2,5 ≤ x < 5 Carc. 2 H351, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 2 H411, EUH019

EC 204-340-2 INDEX 601-045-00-4

Reg. no. 01-2119539463-37-XXXX

CYCLOHEXANOL

CAS 108-93-0 1 ≤ x < 5 Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

EC 203-630-6 INDEX 603-009-00-3

Reg. no. 01-2119447488-26-XXXX

Citronella Oil, Java

CAS 8000-29-1 0,5 ≤ x < 1 Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC INDEX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

#### 5.3. Advice for firefighters

### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for

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health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE FOURMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

#### **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

### 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА
CZE	Česká Republika	ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г) Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
DEU	Deutschland	kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und
ESP	España	Kurzzeitwerte LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019

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### SECTION 8. Exposure controls/personal protection

(INSST) Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS FRA France ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018 **GRC** Ελλάδα Decreto Legislativo 9 Aprile 2008, n.81 ITA Italia Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, NLD Nederland 2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de PRT Portugal protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018 ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 POL Polska czerwca 2018 r HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 ROU România privind stabilirea cerintelor minime de securitate si sănătate în muncă pentru asigurarea protectiei lucrătorilor împotriva riscurilor legate de prezența agenților chimici SVN Slovenija Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu 23.06.2017 tarihli. 30105 savılı, KKDİK Ek II Yönetmelik hükümlerine uvgun düzenlenmiştir TUR Türkiye **GBR** United Kingdom

EH40/2005 Workplace exposure limits (Third edition, published 2018)
Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU)

2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH ACGIH 2019

OEL EU

ΕU

				CYCLO	OHEXANE		
Threshold Limit \	/alue						
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	700	200				
TLV	CZE	700	200,2	2000	572		
AGW	DEU	700	200	2800	800		
MAK	DEU	700	200	2800	800		
VLA	ESP	700	200				
VLEP	FRA	700	200	1300	375	11	
TLV	GRC	700	200				
VLEP	ITA	350	100				
TGG	NLD	700		1400			
VLE	PRT	700	200				
NDS/NDSCh	POL	300		1000		SKIN	
TLV	ROU	700	200				
MV	SVN	700	200	2800	800		
ESD	TUR	700	200				
WEL	GBR	350	100	1050	300		
OEL	EU	700	200				
TLV-ACGIH		344	100				

TURPENTINE									
Threshold Limit V	/alue								
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	300							
TLV	CZE	300		800					
VLA	ESP	113	20						
VLEP	FRA	560	100						
TLV	GRC	560	100	840	150				
TGG	NLD	560							
NDS/NDSCh	POL	112		300					
TLV	ROU	400		500		SKIN			
MV	SVN	560	100	560	100	SKIN			
WEL	GBR	566	100	850	150				
TLV-ACGIH		111	20						

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				Decahydronaphthalene		
Threshold Limi	it Value			-		
Type	Country	TWA/8h		STEL/15min	Remarks / Observations	
		mg/m3	ppm	mg/m3 ppm		
TI V-ACGIH		100				

				====					
				ETHY	L ACETATE				
Threshold Limit V									
Туре	Country	TWA/8h		STEL/15		Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	734	200	1468	400				
TLV	CZE	700	191,1	900	245,7				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	734	200	1468	400				
TLV	GRC	734	200	1468	400				
TGG	NLD	734		1468					
VLE	PRT	734	200	1468	400				
NDS/NDSCh	POL	734		1468					
TLV	ROU	400	111	500	139				
MV	SVN	734	200	1468	400				
WEL	GBR	734	200	1468	400				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
Predicted no-effe	ct concentra	ation - PNE	С						
Normal value in	n fresh water						0,26	mg/l	
Normal value in	n marine wate	er					0,026	mg/l	
Normal value for	or fresh water	r sediment					1,25	mg/kg	
Normal value for	or marine wat	ter sedimen	t				0,125	mg/kg	
Normal value o	f STP microo	rganisms					650	mg/l	
Normal value for	or the food ch	ain (second	dary poisonii	ng)			0,2	g/Kg	
Normal value for	or the terrestr	ial compart	ment				0,24	mg/kg	
Health - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on w	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	stemic	local	systemic	local	systemic	local	systemic
Oral				VND	4,5		•		
					mg/kg				
Inhalation	734	73	4	VND	367	1468	1468	734	734
	mg/ı	m3 mg	J/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin				VND	37	-	-	VND	63
					mg/kg				mg/kg

				1,2,3,4-tetrahy	ydronaphth	alene			
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH		50							

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### SECTION 8. Exposure controls/personal protection

	CYCLOHEXANOL										
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV	BGR	200									
TLV	CZE	200	48	400	94	SKIN					
VLA	ESP	208	50			SKIN					
VLEP	FRA	200	50	300	75						
TLV	GRC	200	50								
TGG	NLD		1								
NDS/NDSCh	POL	10				SKIN					
TLV	ROU	100	25	200	50	SKIN					
MV	SVN	210	50	840	200	SKIN					
WEL	GBR	208	50								
TLV-ACGIH		205	50			SKIN					

#### Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9. Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	transparent	
Odour	characteristic	
Odour threshold	Not available	
pH	Not available	
Melting point / freezing point	0 °C	
Initial boiling point	Not available	
Boiling range	Not available	

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Not available

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### SECTION 9. Physical and chemical properties .../>

Flash point 19 T≤19 °C **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Vapour density Not available Relative density 0.78 - 0.83 Solubility insoluble in water Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not applicable Decomposition temperature Not available Viscosity 3 - 8 cP Explosive properties Not available

9.2. Other information

Oxidising properties

VOC (Directive 2010/75/EC): 98,30 %

### SECTION 10. Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

TURPENTINE

Dissolves rubber.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

#### **CYCLOHEXANE**

May react violently with: strong oxidants, liquid nitric oxide. Forms explosive mixtures with: air.

#### TURPENTINE

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid. fluorine.

In oxygen atmospheres it generates explosive peroxides.

#### ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

#### CYCLOHEXANOI

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals, chromium trioxide. Forms explosive mixtures with: air.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

#### ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

#### **CYCLOHEXANOL**

Avoid exposure to: sources of heat,naked flames.

#### 10.5. Incompatible materials

#### CYCLOHEXANE

Incompatible materials: natural rubbers,neoprene,polyvinyl chloride,polyethylene.

#### ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

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#### SECTION 10. Stability and reactivity .../>>

CYCLOHEXANOL

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

**TURPENTINE** 

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

1,2,3,4-tetrahydronaphthalene

Informazioni riferite al 1,2,3,4-tetraidronaftalene:

LD50 orale ratto : 2860 mg/Kg LD50 pelle coniglio: 16710 mg/Kg Pelle : moderatamente irritante

Non sensibilizzante Occhi : non irritante.

1,2,3,4-tetrahydronaphthalene

Informazioni riferite al 1,2,3,4-tetraidronaftalene:

LD50 orale ratto : 2860 mg/Kg LD50 pelle coniglio: 16710 mg/Kg Pelle : moderatamente irritante

Non sensibilizzante Occhi : non irritante.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

CYCLOHEXANE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **CYCLOHEXANE**

Irritating for the skin and mucous membranes, and may be absorbed by the skin; nerve damage can occur at high doses and is largely due to the cyclohexanone, its metabolite.

Interactive effects

CYCLOHEXANE

The substance may enhance the effects of agents such as tri-ortho-cresyl phosphate (TOCP).

ACUTE TOXICITY

ATE (Inhalation) of the mixture: 9,04 mg/l
ATE (Oral) of the mixture: 1666,67 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

**TURPENTINE** 

LD50 (Oral) 5760 mg/kg Rat

**CYCLOHEXANE** 

 LD50 (Oral)
 > 5000 mg/kg Rat

 LD50 (Dermal)
 > 2000 mg/kg Rabbit

 LC50 (Inhalation)
 13,9 mg/l/4h Rat

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### SECTION 11. Toxicological information .../>>

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

May produce an allergic reaction.

Contains:

Citronella Oil, Java

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

### SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity

**CYCLOHEXANE** 

LC50 - for Fish 4,53 mg/l/96h Pimephales promelas 3,89 mg/l/48h Daphnia magna EC50 - for Crustacea EC50 - for Algae / Aquatic Plants 32,7 mg/l/72h Chlorella vulgaris

#### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

### TURPENTINE

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

**TURPENTINE** 

Solubility in water Rapidly degradable 0,1 - 100 mg/l

@EPY 10.1.6 - SDS 1004.13

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#### **SECTION 12. Ecological information** .../>>

CYCLOHEXANE

0,1 - 100 mg/l Solubility in water

Rapidly degradable

**CYCLOHEXANOL** 

36000 mg/l Solubility in water

Rapidly degradable

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

#### 12.3. Bioaccumulative potential

CYCLOHEXANE

Partition coefficient: n-octanol/water 3,44

**CYCLOHEXANOL** 

Partition coefficient: n-octanol/water 1,25

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 **BCF** 30

### 12.4. Mobility in soil

CYCLOHEXANE

Partition coefficient: soil/water 2,89

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

#### 12.6. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, IATA: 1263

### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

PAINT or PAINT RELATED MATERIAL (CYCLOHEXANE) IMDG:

IATA: PAINT or PAINT RELATED MATERIAL

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#### **SECTION 14. Transport information** .../>>

#### 14.3. Transport hazard class(es)

ADR / RID:

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

Class: 3

Label: 3



Limited Quantities: 5 L

Limited Quantities: 5 L

### 14.4. Packing group

ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID:

**Environmentally Hazardous** 

IMDG:

Marine Pollutant



IATA:

NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

#### 14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 33

Special Provision: 640C

IMDG: EMS: F-E, S-E

IATA:

Cargo:

Pass.:

Maximum quantity: 60 L Maximum quantity: 5 L A3, A72, A192

Special Instructions:

Packaging instructions: 364 Packaging instructions: 353

Tunnel restriction code: (D/E)

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC:

P5c-H2-E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

57 **CYCLOHEXANE** Point

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

Substances subject to the Rotterdam Convention:

None

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#### SECTION 15. Regulatory information ..../>>

Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

#### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flammable liquid, category 2 Flam. Liq. 2 Flam. Liq. 3 Flammable liquid, category 3 Carc. 2 Carcinogenicity, category 2 Acute Tox. 3 Acute toxicity, category 3 Acute toxicity, category 4 Acute Tox. 4 Asp. Tox. 1 Aspiration hazard, category 1 Skin Corr. 1B Skin corrosion, category 1B Eve Dam. 1 Serious eye damage, category 1 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H351 Suspected of causing cancer.

H331 Toxic if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

H335May cause respiratory irritation.H317May cause an allergic skin reaction.H336May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

**EUH019** May form explosive peroxides.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level

## COLOROBBIA S.P.A.

# **DIL--000017 - Diluente**

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#### SECTION 16. Other information .../>>

- PBT: Persistent bioaccumulative and toxic as REACH Regulation PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

### Changes to previous review:

The following sections were modified:

01 / 03 / 04 / 08 / 09 / 11 / 12 / 15.

# COLOROBBIA S.P.A.

# LPP--000004 - Lustro Violetto

Revision nr.25 Dated 09/09/2020 Printed on 12/10/2020 Page n. 1 / 21

Replaced revision:24 (Dated 27/07/2020)

# **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: LPP--00004
Product name Lustro Violetto

Prodotto metallo-organico per decorazione al terzo fuoco

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use third firing decoration in the glass/ceramics/porcelain sectors

#### 1.3. Details of the supplier of the safety data sheet

Name COLOROBBIA S.P.A.
Full address via Pietramarina 53
District and Country 50053 Sovigliana - Vinci

ana - Vinci (FI)

Italia

Tel. +39 0571 7091 Fax +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

#### Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Reproductive toxicity, category 1B	H360Df	May damage the unborn child. Suspected of damaging fertility.
Acute toxicity, category 4	H302	Harmful if swallowed.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure,	H335	May cause respiratory irritation.
category 3		
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H411	Toxic to aquatic life with long lasting effects.
toxicity, category 2		

# **COLOROBBIA S.P.A.**

# LPP--000004 - Lustro Violetto

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### **SECTION 2. Hazards identification**

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:









Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour.

H360Df May damage the unborn child. Suspected of damaging fertility.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

Causes serious eye irritation. H319 H315 Causes skin irritation.

H335 May cause respiratory irritation. May cause an allergic skin reaction. H317 Toxic to aquatic life with long lasting effects. H411 **EUH208** (-)-Pin-2(10)-Ene Contains:

SOLVENT RED 1 **DIPENTENE** Alpha-Pinene Anethole

(R)-P-MENTHA-1,8-DIENE

Linalool Eucaliptol

Eucaliptus globulus oil

Eugenol

May produce an allergic reaction.

Restricted to professional users.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P201 Obtain special instructions before use.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P308+P313 IF exposed or concerned: Get medical advice / attention.

P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .

Contains: TETRAHYDROFURFURYL ALCOHOL

> **TURPENTINE** Eucalyptus Oil ROSIN

#### 2.3. Other hazards

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

### **SECTION 3. Composition/information on ingredients**

#### FΝ

## **COLOROBBIA**

# COLOROBBIA S.P.A.

# LPP--000004 - Lustro Violetto

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Replaced revision:24 (Dated 27/07/2020)

### **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**TURPENTINE** 

Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332. CAS 8006-64-2  $10 \le x < 25$ 

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

**Aquatic Chronic 2 H411** 

EC 232-350-7 INDEX 650-002-00-6 01-2119553060-53 Reg. no.

**Synthetic Camphor** 

CAS 76-22-2  $10 \le x < 20$ Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

STOT SE 3 H335

EC 200-945-0

INDFX

**CYCLOHEXANOL** 

108-93-0 Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335  $5 \le x < 9$ CAS

203-630-6 EC INDEX 603-009-00-3

01-2119447488-26-XXXX Reg. no.

ASPHALT

CAS 12002-43-6 1 ≤ x < 5

FC

INDEX

TETRAHYDROFURFURYL ALCOHOL

Repr. 1B H360Df, Eye Irrit. 2 H319 CAS 97-99-4 1 ≤ x < 5 202-625-6

EC 603-061-00-7 INDEX

**Eucalyptus Oil** 

CAS 8000-48-4  $2.5 \le x < 5$ 

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411 EC

INDEX Au Resinate

CAS 1 ≤ x < 5 Flam. Sol. 1 H228

EC 945-694-4

INDEX Ag Resinate

68551-38-2 CAS 1 ≤ x < 5

Flam. Sol. 1 H228

EC 271-373-7

INDEX **ROSIN** 

1 ≤ x < 5 CAS 8050-09-7

Skin Sens. 1 H317 EC 232-475-7

INDEX 650-015-00-7

Reg. no. 01-2119480418-32-XXXX

**BENZYL ALCOHOL** 

CAS 100-51-6 1 ≤ x < 5 Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319

EC 202-859-9 **INDEX** 603-057-00-5

01-2119492630-38-0000

Reg. no.

Eugenol

CAS 97-53-0  $0.5 \le x < 1$ 

**INDEX** Eucaliptus globulus oil

CAS 84625-32-1  $0.5 \le x < 1$ 

EC 283-406-2

INDFX

Reg. no. 2119978250-37-0000

**Eucaliptol** 

CAS 470-82-6  $0.5 \le x < 1$ 

EC 207-431-5

**INDEX** 

EC

01-2119967772-24-0000 Reg. no.

Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1 H317

Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

Flam. Liq. 3 H226, Skin Sens. 1 H317

@EPY 10.1.6 - SDS 1004.13

#### FΝ

## **COLOROBBIA**

# **COLOROBBIA S.P.A.**

# LPP--000004 - Lustro Violetto

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#### **SECTION 3. Composition/information on ingredients**

Linalool

CAS 78-70-6  $0.5 \le x < 1$ 

EC 201-134-4

INDEX

01-2119474016-42-0000 Reg. no.

(R)-P-MENTHA-1.8-DIENE

CAS 5989-27-5  $0.5 \le x < 1$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Skin Sens 1 H317

Aguatic Acute 1 H400 M=1, Aguatic Chronic 1 H410 M=1,

Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

Classification note according to Annex VI to the CLP Regulation: C

227-813-5 FC INDEX 601-029-00-7

Reg. no. 01-2119529223-47-000

Anethole

CAS 104-46-1 0 < x < 0.5

EC 2032055

INDEX

**CYCLOHEXANONE** 

108-94-1  $0 \le x < 0.5$ CAS

Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,

Eye Dam. 1 H318, Skin Irrit. 2 H315

FC 203-631-1 INDEX 606-010-00-7 Reg. no. 01-2119453616-35

Decahydronaphthalene

91-17-8  $0.25 \le x < 0.5$ CAS

Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=10

202-046-9 FC

INDEX

01-2119565127-37-XXXX Reg. no.

4-METHYLPENTAN-2-ONE

CAS 108-10-1  $0 \le x < 0.5$ 

203-550-1 EC INDEX 606-004-00-4

Rea. no. 01-2119473980-30

Alpha-Pinene

CAS 80-56-8  $0.25 \le x < 0.5$ 

Flam. Lig. 3 H226, Acute Tox. 4 H302, Asp. Tox. 1 H304, Skin Irrit. 2 H315,

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066

Flam. Liq. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314,

EC 201-291-8

**INDEX** 

Rea. no. 01-2119519223-49-0000

**DIPENTENE** 

CAS 138-86-3  $0 \le x < 0.25$ Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1,

Classification note according to Annex VI to the CLP Regulation: C

Carc. 2 H351, Muta. 2 H341, Skin Sens. 1 H317, Aquatic Chronic 4 H413

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 205-341-0

**INDEX** 601-029-00-7

Camphene

CAS 79-92-5  $0 \le x < 0.25$  Flam. Sol. 1 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC 201-234-8

**INDEX** 

01-2119446293-40-XXXX Reg. no.

**SOLVENT RED 1** 

1229-55-6 CAS  $0 \le x < 0.5$ 

EC 214-968-9

INDEX (-)-Pin-2(10)-Ene

127-91-3 CAS  $0 \le x < 0.5$ 

EC 242-060-2

INDEX

**TOLUENE** 

108-88-3  $0 \le x < 0.5$ Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, CAS Skin Irrit. 2 H315, STOT SE 3 H336

FC 203-625-9 INDEX 601-021-00-3

**ETHYL ACETATE** 

141-78-6 CAS  $0 \le x < 0.5$ 

FC 205-500-4 INDEX 607-022-00-5 01-2119475103-46 Reg. no.

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

# **COLOROBBIA S.P.A.**

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#### SECTION 3. Composition/information on ingredients

**XYLENE (MIXTURE OF ISOMERS)** 

CAS 1330-20-7  $0 \le x < 0.5$ 

Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Classification note according to Annex VI to the CLP Regulation: C

EC 215-535-7 INDEX 601-022-00-9

The full wording of hazard (H) phrases is given in section 16 of the sheet.

#### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

### **SECTION 6. Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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# LPP--000004 - Lustro Violetto

Printed on 12/10/2020 Page n. 6 / 21 Replaced revision:24 (Dated 27/07/2020)

#### **SECTION 6. Accidental release measures**

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

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#### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА
		ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
		kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019
		(INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
		implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
		protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a
		agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12
		czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006
		privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției
		lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju
		delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
TUR	Türkiye	23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenlenmiştir
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU)
		2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
		2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

TLV-ACGIH

# COLOROBBIA S.P.A.

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### **SECTION 8. Exposure controls/personal protection**

	TURPENTINE										
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV	BGR	300									
TLV	CZE	300		800							
VLA	ESP	113	20								
VLEP	FRA	560	100								
TLV	GRC	560	100	840	150						
TGG	NLD	560									
NDS/NDSCh	POL	112		300							
TLV	ROU	400		500		SKIN					
MV	SVN	560	100	560	100	SKIN					
WEL	GBR	566	100	850	150						

	Synthetic Camphor									
<b>Threshold Limit</b>	Value			•	•					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV-ACGIH		13	2	19	3					

				CYCLC	HEXANOL	-
Threshold Limit \	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	200				
TLV	CZE	200	48	400	94	SKIN
VLA	ESP	208	50			SKIN
VLEP	FRA	200	50	300	75	
TLV	GRC	200	50			
TGG	NLD		1			
NDS/NDSCh	POL	10				SKIN
TLV	ROU	100	25	200	50	SKIN
MV	SVN	210	50	840	200	SKIN
WEL	GBR	208	50			
TLV-ACGIH		205	50			SKIN

				AS	PHALT	
<b>Threshold Limit</b>	Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		5				

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### SECTION 8. Exposure controls/personal protection .../

				R	OSIN				
Threshold Lim	it Value								
Type	Country	TWA/8h		STEL/15r	nin	Remarks / 0	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	1				INHAL			
TLV	ROU	0,1							
WEL	GBR	0,05		0,15					
Predicted no-e	effect concent	ration - PNEC							
Normal valu	e in fresh wate	r					0,002	mg/l	
Normal valu	e in marine wa	iter					0,0002	mg/l	
Normal valu	e for fresh wat	er sediment					0,007	mg/kg/d	
Normal valu	e for marine w	ater sediment				0,001	mg/kg/d		
Normal valu	e of STP micro	organisms					1000	mg/l	
Normal valu	e for the terres	trial compartm	ent				0,00031	mg/kg/d	
Health - Derive	ed no-effect le	vel - DNEL / D	MEL					0 0	
	Eff	ects on consu	mers			Effects on workers			
Route of exp	oosure Ac	ute Acu	te	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loc	al syst	emic	local	systemic	local	systemic	local	systemic
Oral		•			1,065		•		•
					mg/kg bw/d				
Inhalation								10	
								mg/m3	
Skin					1,065				2,131
					mg/kg bw/d				mg/kg
									bw/d

				BENZYI	ALCOHO!	L			
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15	min	Remarks / Ob	oservations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	5							
TLV	CZE	40	8,88	80	17,76				
AGW	DEU	22	5	44	10	SKIN	11		
NDS/NDSCh	POL	240							
MV	SVN	22	5	44	10	SKIN			

Threshold Limit Value           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           MGW         DEU         28         5         112         20         SKIN           MAK         DEU         28         5         112         20         SKIN           VLA         ESP         168         30         SKIN		(R)-P-MENTHA-1,8-DIENE										
mg/m3         ppm         mg/m3         ppm           AGW         DEU         28         5         112         20         SKIN           MAK         DEU         28         5         112         20         SKIN           VLA         ESP         168         30         SKIN	Threshold Limit Value											
AGW DEU 28 5 112 20 SKIN MAK DEU 28 5 112 20 SKIN VLA ESP 168 30 SKIN	Type	Country	TWA/8h		STEL/15	min	Remarks / Observations					
MAK DEU 28 5 112 20 SKIN VLA ESP 168 30 SKIN			mg/m3	ppm	mg/m3	ppm						
VLA ESP 168 30 SKIN	AGW	DEU	28	5	112	20	SKIN					
	MAK	DEU	28	5	112	20	SKIN					
	VLA	ESP	168	30			SKIN					
MV SVN 28 5 112 20 SKIN	MV	SVN	28	5	112	20	SKIN					

OEL

TLV-ACGIH

ΕU

40,8

80

10

20

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SECTION 8. Exposure controls/personal protection .../>

				CYCLO	HEXANON	NE
Threshold Limit \	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	40,8	10	81,6	20	SKIN
TLV	CZE	40	9,8	80	196	SKIN
AGW	DEU	80	20	80	20	SKIN
VLA	ESP	41	10	82	20	SKIN
VLEP	FRA	40,8	10	81,6	20	
TLV	GRC	200	50	400	100	
VLEP	ITA	40,8	10	81,6	20	SKIN
TGG	NLD			50		SKIN
VLE	PRT	40,8	10	81,6	20	SKIN
NDS/NDSCh	POL	40		80		SKIN
TLV	ROU	40,8	10	81,6	20	SKIN
MV	SVN	40,8	10	81,6	20	SKIN
ESD	TUR	40,8	10	81,6	20	SKIN
WEL	GBR	41	10	82	20	SKIN

Decahydronaphthalene									
Threshold Limit	t Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH		100							

20

50

SKIN

SKIN

81,6

201

				4-METHYLP	ENTAN-2	-ONE
Threshold Limit V	'alue					
Type	Country	TWA/8h		STEL/15r	nin	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	50		200		
TLV	CZE	80	19,2	200	48	SKIN
AGW	DEU	83	20	166	40	SKIN
MAK	DEU	83	20	166	40	SKIN
VLA	ESP	83	20	208	50	
VLEP	FRA	83	20	208	50	
TLV	GRC	410	100	410	100	
VLEP	ITA	83	20	208	50	
TGG	NLD	104		208		
VLE	PRT	83	20	208	50	
NDS/NDSCh	POL	83		200		
TLV	ROU	83	20	208	50	
MV	SVN	83	20	208	50	SKIN
ESD	TUR	83	20	208	50	
WEL	GBR	208	50	416	100	SKIN
OEL	EU	83	20	208	50	
TLV-ACGIH		82	20	307	75	

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SECTION 8. Exposure controls/personal protection

				TO	LUENE	
Threshold Limit V	/alue					
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	192	50	384	100	SKIN
TLV	CZE	192	50,112	384	100,224	SKIN
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	760	200	SKIN
VLA	ESP	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
TLV	GRC	192	50	384	100	
VLEP	ITA	192	50			SKIN
TGG	NLD	150		384		
VLE	PRT	192	50	384	100	SKIN
NDS/NDSCh	POL	100		200		SKIN
TLV	ROU	192	50	384	100	SKIN
MV	SVN	192	50	384	100	SKIN
ESD	TUR	192	50	384	100	SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH		75,4	20			

				ETHYL	ACETATE				
Threshold Limit \	√alue								
Type	Country	TWA/8h		STEL/15min		Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	734	200	1468	400				
TLV	CZE	700	191,1	900	245,7				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	734	200	1468	400				
TLV	GRC	734	200	1468	400				
TGG	NLD	734		1468					
VLE	PRT	734	200	1468	400				
NDS/NDSCh	POL	734		1468					
TLV	ROU	400	111	500	139				
MV	SVN	734	200	1468	400				
WEL	GBR	734	200	1468	400				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
Predicted no-effe	ct concentr	ation - PNE	С						
Normal value ir	n fresh water						0,26	mg/l	
Normal value in	n marine wat	er		0,026	mg/l				
Normal value for	or fresh wate	r sediment					1,25	mg/kg	
Normal value for	or marine wa		0,125	mg/kg					
Normal value o	of STP micro	organisms					650	mg/l	
Normal value for	or the food cl	hain (second	dary poisoni	ng)			0,2	g/Kg	
Normal value for	or the terrest	rial compart	ment	0,			0,24	mg/kg	
Health - Derived i	no-effect lev	el - DNEL /	DMEL					0 0	
Effects on consumers						Effects on workers			
Route of expos	sure Acu	ite Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca		stemic	local	systemic	local	systemic	local	systemic
Oral		-,		VND	4,5		.,		<b>,</b>
					mg/kg				
Inhalation	734	73	4	VND	367	1468	1468	734	734
	mg/	/m3 mg	g/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin		`		VND	37	-		VND	63
					mg/kg				mg/kg

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#### SECTION 8. Exposure controls/personal protection

XYLENE (MIXTURE OF ISOMERS)												
Threshold Limit Value												
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
TLV	BGR	221	50	442	100	SKIN						
TLV	CZE	200	45,4	400	90,8	SKIN						
AGW	DEU	440	100	880	200	SKIN						
MAK	DEU	440	100	880	200	SKIN						
VLA	ESP	221	50	442	100	SKIN						
VLEP	FRA	221	50	442	100	SKIN						
TLV	GRC	435	100	650	150							
VLEP	ITA	221	50	442	100	SKIN						
TGG	NLD	210		442		SKIN						
VLE	PRT	221	50	442	100	SKIN						
NDS/NDSCh	POL	100		200		SKIN						
TLV	ROU	221	50	442	100	SKIN						
MV	SVN	221	50	442	100	SKIN						
ESD	TUR	221	50	442	100	SKIN						
WEL	GBR	220	50	441	100	SKIN						
OEL	EU	221	50	442	100	SKIN						
TLV-ACGIH		434	100	651	150							

#### Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9. Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

PropertiesValueInformationAppearanceliquid

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### **SECTION 9. Physical and chemical properties**

Colour Not available Odour characteristic Odour threshold Not available рΗ Not available Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point 39 T≤44 °C **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Vapour density Not available Relative density Not available insoluble in water Solubility Partition coefficient: n-octanol/water Not available Not applicable Auto-ignition temperature Decomposition temperature Not available Viscosity Not available

9.2. Other information

Explosive properties

Oxidising properties

VOC (Directive 2010/75/EC): 35.52 %

### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

Not available

Not available

#### **TURPENTINE**

Dissolves rubber.

BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

**CYCLOHEXANONE** 

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

#### 4-METHYLPENTAN-2-ONE

Reacts violently with: light metals. Attacks various types of plastic materials.

**TOLUENE** 

Avoid exposure to: light.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

#### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

#### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

#### **TURPENTINE**

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric

In oxygen atmospheres it generates explosive peroxides.

#### **CYCLOHEXANOL**

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals,chromium trioxide. Forms explosive mixtures with: air.

#### BENZYL ALCOHOL

May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus

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#### SECTION 10. Stability and reactivity .../>>

trichloride.

**CYCLOHEXANONE** 

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

4-METHYLPENTAN-2-ONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

**TOLUENE** 

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

#### 10.4. Conditions to avoid

Avoid overheating

**CYCLOHEXANOL** 

Avoid exposure to: sources of heat,naked flames.

BENZYL ALCOHOL

Avoid exposure to: air, sources of heat, naked flames.

**CYCLOHEXANONE** 

Avoid exposure to: sources of heat,naked flames.

4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

CYCLOHEXANOL

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

BENZYL ALCOHOL

Incompatible with: sulphuric acid,oxidising substances,aluminium.

4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

TURPENTINE

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Eugenol

Informazioni riferite all'eugenolo:

LD50 orale ratto 2650 mg/Kg

LD50 dermale coniglio 5000 mg/Kg.

Eugenol

Informazioni riferite all'eugenolo:

LD50 orale ratto 2650 mg/Kg

LD50 dermale coniglio 5000 mg/Kg.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

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### SECTION 11. Toxicological information .../>>

Information not available

Information on likely routes of exposure

**TOLUENE** 

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **TOLUENE**

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

### XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

### Interactive effects

#### **TOLUENE**

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

### XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

### ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: 892,34 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

XYLENE (MIXTURE OF ISOMERS)

 LD50 (Oral)
 3523 mg/kg Rat

 LD50 (Dermal)
 4350 mg/kg Rabbit

 LC50 (Inhalation)
 26 mg/l/4h Rat

**TURPENTINE** 

LD50 (Oral) 5760 mg/kg Rat

**TOLUENE** 

 LD50 (Oral)
 5580 mg/kg Rat

 LD50 (Dermal)
 12124 mg/kg Rabbit

 LC50 (Inhalation)
 28,1 mg/l/4h Rat

BENZYL ALCOHOL

 LD50 (Oral)
 1230 mg/kg Rat

 LD50 (Dermal)
 2000 mg/kg Rabbit

 LC50 (Inhalation)
 > 4,1 mg/l/4h Rat

TETRAHYDROFURFURYL ALCOHOL

LD50 (Oral) 1600 mg/kg Rat

4-METHYLPENTAN-2-ONE

 LD50 (Oral)
 2080 mg/kg Rat

 LD50 (Dermal)
 > 16000 mg/kg Rabbit

 LC50 (Inhalation)
 > 8,2 mg/l/4h Rat

### SKIN CORROSION / IRRITATION

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### SECTION 11. Toxicological information .../>>

Causes skin irritation

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

May produce an allergic reaction.

Contains:

(-)-Pin-2(10)-Ene

**SOLVENT RED 1** 

DIPENTENE

Alpha-Pinene

Anethole

(R)-P-MENTHA-1,8-DIENE

Linalool

Eucaliptol

Eucaliptus globulus oil

Eugenol

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC,

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

### XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

### REPRODUCTIVE TOXICITY

May damage the unborn child - Suspected of damaging fertility

### STOT - SINGLE EXPOSURE

May cause respiratory irritation

### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### ASPIRATION HAZARD

Toxic for aspiration

### **SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

### 12.1. Toxicity

(R)-P-MENTHA-1,8-DIENE LC50 - for Fish EC50 - for Crustacea

35 mg/l/96h Oncorhynchus mykiss 69,6 mg/l/48h Daphnia pulex

#### FΝ

## **COLOROBBIA**

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### SECTION 12. Ecological information .../>>

**DIPENTENE** LC50 - for Fish EC50 - for Crustacea

80 mg/l/96h Oncorhynchus mykiss 17 mg/l/48h Daphnia magna

### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

TURPENTINE

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

XYLENE (MIXTURE OF ISOMERS)

100 - 1000 mg/l Solubility in water

Degradability: information not available

**TURPENTINE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

**ROSIN** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

(R)-P-MENTHA-1,8-DIENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

**TOLUENE** 

100 - 1000 mg/l Solubility in water

Rapidly degradable

**DIPENTENE** 

NOT rapidly degradable

CYCLOHEXANOL

Solubility in water 36000 mg/l

Rapidly degradable

BENZYL ALCOHOL Rapidly degradable

TETRAHYDROFURFURYL ALCOHOL

Solubility in water > 10000 mg/l

Rapidly degradable

4-METHYLPENTAN-2-ONE

Solubility in water > 10000 mg/l

Rapidly degradable

CYCLOHEXANONE

Solubility in water 0,1 - 100 mg/l Rapidly degradable

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3.12 **BCF** 25,9

## **COLOROBBIA S.P.A.**

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### SECTION 12. Ecological information

ECTION 12. Ecological information	/ >>
ROSIN	
Partition coefficient: n-octanol/water BCF	3 56,23
(R)-P-MENTHA-1,8-DIENE	
Partition coefficient: n-octanol/water BCF	4,38 1022
TOLUENE	
Partition coefficient: n-octanol/water	2,73
BCF	90
DIPENTENE Partition coefficient: n-octanol/water	4,5
CYCLOHEXANOL	,-
Partition coefficient: n-octanol/water	1,25
BENZYL ALCOHOL	
Partition coefficient: n-octanol/water	1,1
TETRAHYDROFURFURYL ALCOHOL	
Partition coefficient: n-octanol/water	-0,14

### 4-METHYLPENTAN-2-ONE

1,9 Partition coefficient: n-octanol/water

### CYCLOHEXANONE

Partition coefficient: n-octanol/water 0,86

### ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68

### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

**ROSIN** 

Partition coefficient: soil/water 3,7289

4-METHYLPENTAN-2-ONE

Partition coefficient: soil/water 2,008

CYCLOHEXANONE

1,18 Partition coefficient: soil/water

### 12.5. Results of PBT and vPvB assessment

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

### 12.6. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

## **COLOROBBIA**

## **COLOROBBIA S.P.A.**

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### **SECTION 13. Disposal considerations**

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

### 14.1. UN number

ADR / RID, IMDG, IATA: 1263

### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

PAINT or PAINT RELATED MATERIAL (TURPENTINE) IMDG:

IATA: PAINT or PAINT RELATED MATERIAL

### 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



### 14.4. Packing group

ADR / RID, IMDG, IATA: Ш

### 14.5. Environmental hazards

ADR / RID: **Environmentally Hazardous** 

IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

### 14.6. Special precautions for user

ADR / RID: Limited Quantities: 5 L HIN - Kemler: 30 Tunnel restriction code: (D/E)

Special Provision: -

IMDG: EMS: F-E, <u>S-E</u> Limited Quantities: 5 L IATA:

Cargo: Maximum quantity: 220 L Packaging instructions: 366 Maximum quantity: 60 L Packaging instructions: 355 Pass.:

Special Instructions: A3, A72, A192

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c-E2

#### FΝ

### **COLOROBBIA**

## COLOROBBIA S.P.A.

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### **SECTION 15. Regulatory information**

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point

Contained substance

Point 30 TETRAHYDROFURFURYL ALCOHOL

Point 48 **TOLUENE** 

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

### Healthcare controls

Asp. Tox. 1

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2 Flam. Liq. 3 Flammable liquid, category 3 Flammable solid, category 1 Flam. Sol. 1 Carc. 2 Carcinogenicity, category 2 Muta 2 Germ cell mutagenicity, category 2 Repr. 1B Reproductive toxicity, category 1B Reproductive toxicity, category 2 Repr. 2 Acute Tox. 3 Acute toxicity, category 3 Acute toxicity, category 4 Acute Tox. 4

Aspiration hazard, category 1 STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B Skin corrosion, category 1B Serious eye damage, category 1 Eye Dam. 1 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1 Skin Sens. 1B Skin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1 **Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity, category 1 **Aquatic Chronic 2** Hazardous to the aquatic environment, chronic toxicity, category 2 **Aquatic Chronic 4** Hazardous to the aquatic environment, chronic toxicity, category 4

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. Flammable solid. H228

H351 Suspected of causing cancer. Suspected of causing genetic defects. H341

H360Df May damage the unborn child. Suspected of damaging fertility.

H361d Suspected of damaging the unborn child.

H331 Toxic if inhaled. H302 Harmful if swallowed. H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

#### Ε

### **COLOROBBIA**

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### SECTION 16. Other information .../>>

**H314** Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

H335May cause respiratory irritation.H317May cause an allergic skin reaction.H336May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition

## **COLOROBBIA S.P.A.**

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#### .../>> **SECTION 16. Other information**

- IFA GESTIS website- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 03 / 07 / 08 / 09.

## **COLOROBBIA S.P.A.**

## LJP--000008 - Lustro Giallo

Revision nr.15 Dated 08/09/2020 Printed on 12/10/2020 Page n. 1 / 18

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## **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: LJP--00008
Product name Lustro Giallo

Prodotto metallo-organico per decorazione al terzo fuoco

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use third firing decoration in the glass/ceramics/porcelain sectors

### 1.3. Details of the supplier of the safety data sheet

Name COLOROBBIA S.P.A.
Full address via Pietramarina 53
District and Country 50053 Sovigliana - Vinci

iuna vinoi

Italia

Tel. +39 0571 7091 Fax +39 0571 709.850

e-mail address of the competent person

responsible for the Safety Data Sheet ambientemsds@colorobbia.it

### 1.4. Emergency telephone number

For urgent inquiries refer to CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444

(FI)

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

### **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Acute toxicity, category 4	H302	Harmful if swallowed.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H410	Very toxic to aquatic life with long lasting effects.
toxicity, category 1		

## **COLOROBBIA S.P.A.**

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### SECTION 2. Hazards identification .../>>

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:











Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour.
H351 Suspected of causing cancer.
H302 Harmful if swallowed.

**H304** May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.
H315 Causes skin irritation.

**H317** May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

EUH208 Contains: Malaleuca alternifolia extract

terpinolen (-)-Pin-2(10)-Ene Alpha-Pinene Eucaliptol

May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

**P280** Wear protective gloves/ protective clothing / eye protection / face protection.

P310 Immediately call a POISON CENTER / doctor / . . .

P370+P378 In case of fire: use . . . to extinguish.

Contains: DIESEL OIL - not specified

TURPENTINE Anethole Eucalyptus Oil ROSIN

(R)-P-MENTHA-1,8-DIENE Eucaliptus globulus oil

Linalool

### 2.3. Other hazards

vPvB substances contained:

Camphene

PBT substances contained:

Camphene

### **SECTION 3. Composition/information on ingredients**

#### FΝ

### **COLOROBBIA**

## COLOROBBIA S.P.A.

# LJP--000008 - Lustro Giallo

.../>>

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### **SECTION 3. Composition/information on ingredients**

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**TURPENTINE** 

Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332. CAS 8006-64-2  $10 \le x < 25$ 

Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

Aquatic Chronic 2 H411

Skin Sens. 1 H317

EC 232-350-7 INDEX 650-002-00-6 01-2119553060-53 Reg. no.

ROSIN

CAS 8050-09-7  $9 \le x < 25$ 

EC 232-475-7 INDEX 650-015-00-7

01-2119480418-32-XXXX Reg. no.

**CYCLOHEXANOL** 

108-93-0  $5 \le x < 9$ CAS

EC 203-630-6 INDEX 603-009-00-3

01-2119447488-26-XXXX Reg. no.

**Eucalyptus Oil** 

8000-48-4 CAS  $5 \le x < 9$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411

FC INDEX

**BENZYL ALCOHOL** 

CAS 100-51-6 1 ≤ x < 5 Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319

EC 202-859-9 603-057-00-5 INDEX

01-2119492630-38-0000 Reg. no.

**CHROME THREE (ETYL ESANOATE)** 

CAS 3444-17-5 1≤x< 5

EC 222-357-3

INDEX

**Synthetic Camphor** 

CAS 76-22-2  $1 \le x < 5$ Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

Skin Irrit, 2 H315

Skin Sens. 1 H317

**STOT SE 3 H335** 

EC 200-945-0

INDEX Anethole

CAS 104-46-1  $1 \le x < 5$ 

EC 2032055

INDEX

Decahydronaphthalene

CAS 91-17-8  $1 \le x < 2.5$ Flam. Liq. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314,

Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=10

EC 202-046-9

**INDEX** 

01-2119565127-37-XXXX Reg. no.

CYCLOHEXANONE

108-94-1 Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, CAS  $1 \le x < 3$ 

Eye Dam. 1 H318, Skin Irrit. 2 H315

EC 203-631-1 **INDEX** 606-010-00-7 01-2119453616-35 Rea. no.

**DIESEL OIL - not specified** 

CAS 68476-34-6 1 ≤ x < 5 Carc. 2 H351

EC 270-676-1 649-227-00-2 INDFX

Linalool

78-70-6 CAS  $1 \le x < 5$ 

EC 201-134-4

**INDEX** 

01-2119474016-42-0000 Reg. no.

Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

### **COLOROBBIA**

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## SECTION 3. Composition/information on ingredients ..../>>

(R)-P-MENTHA-1,8-DIENE

CAS 5989-27-5 1 ≤ x < 2,5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1,

Classification note according to Annex VI to the CLP Regulation: C

EC 227-813-5 INDEX 601-029-00-7

Reg. no. 01-2119529223-47-000

Eucaliptus globulus oil

CAS 84625-32-1 1 ≤ x < 2,5 Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 283-406-2

INDEX

Reg. no. 2119978250-37-0000

**Eucaliptol** 

CAS 470-82-6  $0.5 \le x < 1$ 

EC 207-431-5

INDEX

Reg. no. 01-2119967772-24-0000

**TOLUENE** 

CAS 108-88-3 0,5 ≤ x < 1 Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373,

Skin Irrit. 2 H315, STOT SE 3 H336

Flam. Liq. 3 H226, Skin Sens. 1 H317

EC 203-625-9 INDEX 601-021-00-3

Alpha-Pinene

CAS 80-56-8 0.25 ≤ x < 0.5

Flam. Liq. 3 H226, Acute Tox. 4 H302, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 201-291-8

INDEX

Reg. no. 01-2119519223-49-0000

Camphene

CAS 79-92-5 0,25  $\leq$  x < 0,5 Flam. Sol. 1 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

INDEX

Reg. no. 01-2119446293-40-XXXX

(-)-Pin-2(10)-Ene

CAS 127-91-3 0 ≤ x < 0,5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 242-060-2

INDEX terpinolen

CAS 586-62-9 0 ≤ x < 0,25 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC INDEX

Reg. no. 01-2119982325-32-XXXX

209-578-0

Malaleuca alternifolia extract

CAS 85085-48-9 0 ≤ x < 0,25 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC

INDEX

**XYLENE (MIXTURE OF ISOMERS)** 

CAS 1330-20-7 0 ≤ x < 0,5 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315,

Classification note according to Annex VI to the CLP Regulation: C

EC 215-535-7 INDEX 601-022-00-9

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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### SECTION 4. First aid measures .../>>

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

### 4.3. Indication of any immediate medical attention and special treatment needed

in the event of an accident or if you feel unwell, contact a beggar or a poison center

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

### 5.3. Advice for firefighters

#### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

### **SECTION 6. Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may

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### SECTION 7. Handling and storage .../>>

accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

### SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
075	Š L / B L III	
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
		kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019
ED A	F	(INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
		implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
		protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a
		agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZADZENIE MINISTRA RODZINY. PRACY I POLITYKI SPOŁECZNEJ z dnia 12
		czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006
		privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției
		lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju
OVIV	Olovenija	delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
TUR	Türkiye	23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenlenmiştir
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
~	•	
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU)
		2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
		2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

WEL

TLV-ACGIH

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850

100

20

566

111

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SECTION 8. Exposure controls/personal protection

GBR

				TUR	PENTINE	
Threshold Limit \	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	300				
TLV	CZE	300		800		
VLA	ESP	113	20			
VLEP	FRA	560	100			
TLV	GRC	560	100	840	150	
TGG	NLD	560				
NDS/NDSCh	POL	112		300		
TLV	ROU	400		500		SKIN
MV	SVN	560	100	560	100	SKIN

150

				R	OSIN				
hreshold Limit Val	ue								
Type (	Country	TWA/8h		STEL/15r	min	Remarks / C	bservations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	1			•	INHAL			
TLV F	ROU	0,1							
WEL (	GBR	0,05		0,15					
redicted no-effect	concentra	tion - PNE	С						
Normal value in fre	esh water						0,002	mg/l	
Normal value in m	arine wate	r					0,0002	mg/l	
Normal value for fi	resh water	sediment					0,007	mg/kg/d	
Normal value for n	narine wat	er sedimen					0,001	mg/kg/d	
Normal value of S	TP microo	rganisms					1000	mg/l	
Normal value for the	he terrestri	al comparti	nent				0,00031	mg/kg/d	
lealth - Derived no-	effect leve	el - DNEL /	DMEL						
	Effec	cts on consi	umers			Effects on wor	rkers		
Route of exposure	e Acut	e Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	sys	temic	local	systemic	local	systemic	local	systemic
Oral		·			1,065		•		•
					mg/kg bw/d				
Inhalation								10	
								mg/m3	
Skin					1,065				2,131
					mg/kg bw/d				mg/kg
									bw/d

				CYCLC	HEXANOL	
Threshold Limit V	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	200				
TLV	CZE	200	48	400	94	SKIN
VLA	ESP	208	50			SKIN
VLEP	FRA	200	50	300	75	
TLV	GRC	200	50			
TGG	NLD		1			
NDS/NDSCh	POL	10				SKIN
TLV	ROU	100	25	200	50	SKIN
MV	SVN	210	50	840	200	SKIN
WEL	GBR	208	50			
TLV-ACGIH		205	50			SKIN

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SECTION 8. Exposure controls/personal protection	/

				BENZYI	_ ALCOHO	DL	
Threshold Limit \	/alue						
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	5					
TLV	CZE	40	8,88	80	17,76		
AGW	DEU	22	5	44	10	SKIN 11	
NDS/NDSCh	POL	240					
MV	SVN	22	5	44	10	SKIN	

				Synthet	tic Camphor	
Threshold Limit \	/alue					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		13	2	19	3	

Decahydronaphthalene									
Threshold Limit \	/alue								
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH		100							

				CYCLO	HEXANON	NE NE
Threshold Limit V	alue					
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	40,8	10	81,6	20	SKIN
TLV	CZE	40	9,8	80	196	SKIN
AGW	DEU	80	20	80	20	SKIN
VLA	ESP	41	10	82	20	SKIN
VLEP	FRA	40,8	10	81,6	20	
TLV	GRC	200	50	400	100	
VLEP	ITA	40,8	10	81,6	20	SKIN
TGG	NLD			50		SKIN
VLE	PRT	40,8	10	81,6	20	SKIN
NDS/NDSCh	POL	40		80		SKIN
TLV	ROU	40,8	10	81,6	20	SKIN
MV	SVN	40,8	10	81,6	20	SKIN
ESD	TUR	40,8	10	81,6	20	SKIN
WEL	GBR	41	10	82	20	SKIN
OEL	EU	40,8	10	81,6	20	SKIN
TLV-ACGIH		80	20	201	50	SKIN

				(R)-P-MEN	THA-1,8-C	DIENE
<b>Threshold Limi</b>	it Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	28	5	112	20	SKIN
MAK	DEU	28	5	112	20	SKIN
VLA	ESP	168	30			SKIN
MV	SVN	28	5	112	20	SKIN

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### SECTION 8. Exposure controls/personal protection

TOLUENE											
Threshold Limit Value											
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV	BGR	192	50	384	100	SKIN					
TLV	CZE	192	50,112	384	100,224	SKIN					
AGW	DEU	190	50	760	200	SKIN					
MAK	DEU	190	50	760	200	SKIN					
VLA	ESP	192	50	384	100	SKIN					
VLEP	FRA	76,8	20	384	100	SKIN					
TLV	GRC	192	50	384	100						
VLEP	ITA	192	50			SKIN					
TGG	NLD	150		384							
VLE	PRT	192	50	384	100	SKIN					
NDS/NDSCh	POL	100		200		SKIN					
TLV	ROU	192	50	384	100	SKIN					
MV	SVN	192	50	384	100	SKIN					
ESD	TUR	192	50	384	100	SKIN					
WEL	GBR	191	50	384	100	SKIN					
OEL	EU	192	50	384	100	SKIN					
TLV-ACGIH		75,4	20								

XYLENE (MIXTURE OF ISOMERS)											
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV	BGR	221	50	442	100	SKIN					
TLV	CZE	200	45,4	400	90,8	SKIN					
AGW	DEU	440	100	880	200	SKIN					
MAK	DEU	440	100	880	200	SKIN					
VLA	ESP	221	50	442	100	SKIN					
VLEP	FRA	221	50	442	100	SKIN					
TLV	GRC	435	100	650	150						
VLEP	ITA	221	50	442	100	SKIN					
TGG	NLD	210		442		SKIN					
VLE	PRT	221	50	442	100	SKIN					
NDS/NDSCh	POL	100		200		SKIN					
TLV	ROU	221	50	442	100	SKIN					
MV	SVN	221	50	442	100	SKIN					
ESD	TUR	221	50	442	100	SKIN					
WEL	GBR	220	50	441	100	SKIN					
OEL	EU	221	50	442	100	SKIN					
TLV-ACGIH		434	100	651	150						

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. **EYE PROTECTION** 

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

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### SECTION 8. Exposure controls/personal protection .../>

RESPIRATORY PROTECTIONIf the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9. Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

**Properties** Value Appearance liquid Colour brown Odour characteristic Odour threshold Not available Not applicable Melting point / freezing point °C Initial boiling point Not available Boiling range Not available Flash point 25 T≤30 °C **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not applicable Upper inflammability limit Not applicable Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Vapour density Not available Relative density Not available Solubility insoluble in water Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not applicable Decomposition temperature Not available 55 - 65 sec Viscosity Explosive properties Not available Oxidising properties Not available

Information

### 9.2. Other information

VOC (Directive 2010/75/EC): 36,68 %

### **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

**TURPENTINE** 

Dissolves rubber.

BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

CYCLOHEXANONE

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

TOLUENE

Avoid exposure to: light.

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### SECTION 10. Stability and reactivity .../>>

### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

#### **TURPENTINE**

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid. fluorine.

In oxygen atmospheres it generates explosive peroxides.

#### **CYCLOHEXANOL**

Risk of explosion on contact with: nitric acid,strong oxidising agents. May react dangerously with: alkaline metals,chromium trioxide. Forms explosive mixtures with: air.

#### BENZYL ALCOHOL

May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus trichloride.

### **CYCLOHEXANONE**

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

#### TOLUEN

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

### XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

### 10.4. Conditions to avoid

Avoid overheating.

### **CYCLOHEXANOL**

Avoid exposure to: sources of heat,naked flames.

### BENZYL ALCOHOL

Avoid exposure to: air, sources of heat, naked flames.

### **CYCLOHEXANONE**

Avoid exposure to: sources of heat,naked flames.

### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

### CYCLOHEXANOL

Incompatible with: strong oxidants. Incompatible materials: plastic materials.

### BENZYL ALCOHOL

Incompatible with: sulphuric acid,oxidising substances,aluminium.

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

### **TURPENTINE**

May develop: acyclic terpenes, monocyclic terpenes, hydroterpenes, pyrones, cymenes.

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

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### SECTION 11. Toxicological information .../>>

**TOLUENE** 

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **TOLUENE**

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

### XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

### Interactive effects

### **TOLUENE**

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

#### XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

### ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: 1135,52 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

XYLENE (MIXTURE OF ISOMERS)

 LD50 (Oral)
 3523 mg/kg Rat

 LD50 (Dermal)
 4350 mg/kg Rabbit

 LC50 (Inhalation)
 26 mg/l/4h Rat

**TURPENTINE** 

LD50 (Oral) 5760 mg/kg Rat

**TOLUENE** 

 LD50 (Oral)
 5580 mg/kg Rat

 LD50 (Dermal)
 12124 mg/kg Rabbit

 LC50 (Inhalation)
 28,1 mg/l/4h Rat

BENZYL ALCOHOL

 LD50 (Oral)
 1230 mg/kg Rat

 LD50 (Dermal)
 2000 mg/kg Rabbit

 LC50 (Inhalation)
 > 4,1 mg/l/4h Rat

### SKIN CORROSION / IRRITATION

Causes skin irritation

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

May produce an allergic reaction.

Contains:

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### SECTION 11. Toxicological information .../>>

Malaleuca alternifolia extract terpinolen (-)-Pin-2(10)-Ene Alpha-Pinene Eucaliptol

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Suspected of causing cancer

#### **TOLUENE**

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

### XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### ASPIRATION HAZARD

Toxic for aspiration

### SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity

(R)-P-MENTHA-1,8-DIENE

LC50 - for Fish EC50 - for Crustacea 35 mg/l/96h Oncorhynchus mykiss 69,6 mg/l/48h Daphnia pulex

### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

### TURPENTINE

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment.

XYLENE (MIXTURE OF ISOMERS)

Solubility in water

Degradability: information not available

100 - 1000 mg/l

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**TURPENTINE** 

0,1 - 100 mg/l Solubility in water

Rapidly degradable

**ROSIN** 

0,1 - 100 mg/l Solubility in water

Rapidly degradable

(R)-P-MENTHA-1,8-DIENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

**TOLUENE** 

100 - 1000 mg/l Solubility in water

Rapidly degradable

CYCLOHEXANOL

Solubility in water 36000 mg/l

Rapidly degradable

BENZYL ALCOHOL Rapidly degradable

CYCLOHEXANONE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

### 12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12 25,9

**ROSIN** 

3 Partition coefficient: n-octanol/water

56,23

(R)-P-MENTHA-1,8-DIENE

Partition coefficient: n-octanol/water 4,38 BCF 1022

**TOLUENE** 

Partition coefficient: n-octanol/water 2,73 **BCF** 90

CYCLOHEXANOL

Partition coefficient: n-octanol/water 1,25

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1,1

CYCLOHEXANONE

Partition coefficient: n-octanol/water 0,86

### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

**ROSIN** 

Partition coefficient: soil/water 3,7289

CYCLOHEXANONE

Partition coefficient: soil/water 1,18

### 12.5. Results of PBT and vPvB assessment

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### **SECTION 12. Ecological information**

vPvB substances contained: Camphene

PBT substances contained: Camphene

### 12.6. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

**CONTAMINATED PACKAGING** 

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

### 14.1. UN number

ADR / RID, IMDG, IATA:

### 14.2. UN proper shipping name

PAINT or PAINT RELATED MATERIAL ADR / RID:

PAINT or PAINT RELATED MATERIAL (TURPENTINE) IMDG:

IATA: PAINT or PAINT RELATED MATERIAL

### 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



### 14.4. Packing group

ADR / RID, IMDG, IATA: Ш

### 14.5. Environmental hazards

ADR / RID: **Environmentally Hazardous** 

IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

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### SECTION 14. Transport information .../>>

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special Provision: IMDG: EMS: F-E, <u>S-E</u> Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 220 L Packaging instructions: 366
Pass.: Maximum quantity: 60 L Packaging instructions: 355

Special Instructions: A3, A72, A192

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c-E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 48 TOLUENE

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flammable liquid, category 2 Flam. Liq. 2 Flam. Liq. 3 Flammable liquid, category 3 Flam. Sol. 1 Flammable solid, category 1 Carc. 2 Carcinogenicity, category 2 Reproductive toxicity, category 2 Repr. 2 Acute Tox. 3 Acute toxicity, category 3 Acute Tox. 4 Acute toxicity, category 4 Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B

Eye Dam. 1

Eye Irrit. 2

Skin Irrit. 2

Skin irritation, category 2

Skin Irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1 Skin Sens. 1B Skin sensitization, category 1B

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Aquatic Acute 1Hazardous to the aquatic environment, acute toxicity, category 1Aquatic Chronic 1Hazardous to the aquatic environment, chronic toxicity, category 1Aquatic Chronic 2Hazardous to the aquatic environment, chronic toxicity, category 2

**H225** Highly flammable liquid and vapour. **H226** Flammable liquid and vapour.

H228 Flammable solid.

**H351** Suspected of causing cancer.

**H361d** Suspected of damaging the unborn child.

H331 Toxic if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.

**H304** May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

**H314** Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

H335 May cause respiratory irritation.
 H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

#### LEGEND

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament

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#### .../>> **SECTION 16. Other information**

- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

03 / 08 / 09.