

Bath Potters' Supplies

MATERIAL SAFETY DATA SHEET

(cosh19)

1. Identification of the preparation/Supplier reference

Trade Name **Liquid metals, lustres and essences**

AMBL Amber	LIBL Light blue	YMOP Yellow Mother of Pearl
BLAL Black	LIGL Light green	THIN Thinners
BLUL Blue	MOPL Mother of Pearl 'Iris'	
FE3 Bright gold FE3	OPAL Opal	
BRPL Bright platinum	PINL Pink ('Iris lilac')	
COPL Copper Lustre	PURL Purple	
CRAL Cranberry	TUGL Turquoise green	

Chemical name	Organo metallic compound, resins and solvents
Synonyms	None
Supplier	Bath Potters Supplies, Dorset Close, Bath, BA2 3RF
Emergency numbers	Tel: 01225 337046 Fax: 01225 462712 Email: sales@bathpotters.demon.co.uk

2. Composition

Component	CAS	EINECS	% of composition
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Refer to Table 1

3. Health Hazard Identification

Inhalation	Will irritate the nose and upper respiratory tracts
Ingestion	Will cause nausea and vomiting
Eyes	Will sting and high concentrations will be irritating
Skin	May cause redness and irritation, especially if spilled onto clothing and allowed to remain in contact with the skin over a period of time.

4. First Aid Measures

Inhalation	Remove patient to fresh air, loosen tight clothing and seek medical attention
Ingestion	Rinse mouth with water and give milk. Do not induce vomiting, seek medical advice
Eyes	Wash immediately with copious amounts of water or isotonic saline solution for 15 minutes. Seek medical advice
Skin	Remove contaminated clothing and wash skin with soap and water. Do not use solvents. Seek medical advice if symptoms persist.

5. Fire Fighting Measures

Extinguishing Media	Carbon dioxide, dry powder or foam extinguishers
Special Exposure hazard	The material is flammable and if ignited will burn producing toxic fumes.
Personal protective equipment	Self contained breathing apparatus

6. Accidental Release Measures

Leaks & Spills	Remove all sources of ignition. Small spills can be wiped up with absorbent paper. Cover larger spills with sand or other inert absorbent. Collect in a suitable container for disposal or further treatment.
Personal protective equipment	Chemical resistant gloves and, in areas of poor ventilation, respiratory protection

7. Handling & Storage

Handling	Use only under conditions of good local ventilation. Avoid contact with the skin and eyes. Don not eat, drink, smoke or apply cosmetics whilst using this materials
Storage	Store in a sealed container in a cool dry place away from any sources of ignition

8. Exposure Control/Personal protective Equipment

Engineering controls	Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended
Personal protective equipment	Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves and overalls are recommended for prolonged contact. Vapour and fumes from drying, curing, firing or kilning operations should be discharged to the atmosphere in accordance with local and national regulations

9. Physical & Chemical properties

Appearance & Odour	Brown (except for P4384 and P4385, both colourless) varnish like liquid, with characteristic odour
Flash point (°C)	Please refer to summary table
Flammability	Will ignite if heated or in contact with a flame
Explosive properties	Not explosive
Oxidising properties	Not oxidising
Specific gravity	1-1.2
pH value	Not applicable
Melting point (°C)	No data available

10. Stability & Reactivity

Chemical stability	The material is supplied in a stable condition but will lose solvent by evaporation. Note that the solvents are heavier than air and can accumulate, travel to sources of ignition and flashback.
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Conditions/materials to avoid	Avoid contact with strong oxidising agents such as chlorates, perchlorates, permanganates, nitric acid or sulphuric acid.
Hazardous decomposition products	Cyclohexanone explodes when added to nitric acid and, on mixing with hydrogen peroxide it produces oily explosive peroxides
Hazardous polymerization products	Not known

11. Toxicology Information

Acute toxicology	There is no specific data available for this preparation data. Data for the components indicate that the oral toxicity LD50 (oral-rat) 200-2000mg/kg
Health effects	The preparation is harmful and individual solvents are mild skin irritants and mild to severe eye irritants

12. Ecological information

Ecotoxicity	The organic solvents are toxic to fish at a concentration of about 50ppm
Persistence	The cured preparation, resins and plastics are only sparingly soluble in water and will pose no threat to the environment

13. Disposal

Small spills can be absorbed onto paper and burnt in an incinerator, in accordance with local and national regulations.

Large quantities can be mixed with sand and disposed of to landfill in accordance with local and national regulations.

14. Transport Information

UN/SI No.	1236
UN Class	3
Packing group	III
Road	UK Not classified ADR Not classified
Sea	IMO For sea transport, these products are classified as a marine pollutant (P) contains O-dichlorobenzele
Air	ICAO Not classified

15. Regulatory information

EC Supply Labelling	Harmful - contains O-dichlorobenzene
R-Phrases	R10 - flammable R20/22 - harmful by inhalation and if swallowed R36/38 - irritating to eyes and skin R61 - may cause harm to the unborn child
S-Phrases	S20/21 - when using, do not eat, drink or smoke S24/25 - avoid contact with skin and eyes S26 - in case of contact with eyes, rinse immediately with plenty of water and seek medical advice S38 - in case of insufficient ventilation wear suitable

respiratory equipment
 S51 - use only in well ventilated areas
 S53 - avoid exposure - obtain special instructions before use
 UK Occupational exposures limits* Refer to table 2

* refer to HSE Guidance note EH40

In accordance with HSE Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk

16. Other information

Summary per product

Refer to table 3

TABLE 1 COMPOSITION

Product	EINECS	CAS
Turpentine	2323507	8006-64-2
O-dichlorobenzene	2024259	95-50-1
Cyclohexanol	2036306	108-93-0
Cyclohexanone	2036311	108-94-1
Methyl cyclohexanol	2471526	25639-42-3
di-iso-octylphthalate	2485235	27554-26-3
Camphor	2009450	76-22-2
White spirit	2324893	8052-41-3
Xyleone	2155357	1330-20-7
Tetrahydronaphthalene	2043402	119-64-2
Isophorone	2011260	78-59-1
Tetrahydrofurfuryl alcohol	2026256	97-99-4

TABLE 2 OCCUPATIONAL EXPOSURE LIMITS

Product	LTEL	STEL	% in product
Turpentine	100ppm	150ppm	PLEASE REFER TO SUMMARY TABLE
O-dichlorobenzene	-	50ppm	
Cyclohexanol	50ppm	-	
Cyclohexanone	25ppm	100ppm	
Methyl cyclohexanol	50ppm	75ppm	
di-iso-octylphthalate	5mg/m ³	-	
Camphor	2ppm	3ppm	
White spirit	100ppm	125ppm	
Xyleone	100ppm	150ppm	
Tetrahydronaphthalene	None		
Isophorone	-	5ppm	
Tetrahydrofurfuryl alcohol	None		

TABLE 3

SUMMARY PER PRODUCT

P4390, P4391, P4392, P4393 - data not available for commercial publication

Product		FE3 Gold	AMBL	OPAL	THIN	BLAL
Turpentine	%	10-15	1-5	10-15	1-5	15-20
O-dichlorobenzene	%	1-5	1-5	5-10	1	5-10
Cyclohexanol	%	10-15	5-10	5-10	50-60	1-5
Cyclohexanone	%	5-10	10-15	-	25-30	1-5
Methyl cyclohexanol	%	1-5	-	-	5-10	1-5
di-iso-octylphthalate	%	-	-	-	-	-
Camphor	%	5-10	-	1	-	10-15
White spirit	%	-	10-15	15-20	-	-
Xylene	%	-	-	-	-	-
Tetrahydronaphthalene	%	-	-	-	-	-
Isophorone	%	-	-	-	-	-
Tetrahydrofurfuryl alcohol	%	-	-	-	-	-
Flash point (°C closed up)		48	35	45	38	43

Product		MOPL	LIBL	BLUL	TUGL	YMOP	CRAL
Turpentine	%	5-10	5-10	15-20	15-20	20-25	10-15
O-dichlorobenzene	%	5-10	5-10	5-10	1-5	1-5	5-10
Cyclohexanol	%	5-10	5-10	1-5	-	-	-
Cyclohexanone	%	1-5	1-5	1-5	5-10	1-5	5-10
Methyl cyclohexanol	%	15-20	10-15	1-5	-	-	-
di-iso-octylphthalate	%	1-5	1-5	-	-	-	-
Camphor	%	15-20	15-20	10-15	-	-	10-15
White spirit	%	-	-	-	10-15	5-10	1-5
Xylene	%	-	-	-	-	-	-
Tetrahydronaphthalene	%	-	-	-	-	-	-
Isophorone	%	-	-	-	-	-	-
Tetrahydrofurfuryl alcohol	%	-	-	-	-	-	-
Flash point (°C closed up)		42	47	43	44	40	44

Product		LIGL	PINL	PURL	COPL	BRPL	YMOP
Turpentine	%	20-25	10-15	20-25	10-15	5-10	20-25
O-dichlorobenzene	%	1-5	1-5	1-5	10-15	5-10	1-5
Cyclohexanol	%	-	-	1-5	5-10	5-10	-
Cyclohexanone	%	1-5	-	1-5	1-5	5-10	1-5
Methyl cyclohexanol	%	-	-	1-5	-	-	-
di-iso-octylphthalate	%	-	-	-	-	-	-
Camphor	%	-	20-25	1-5	1-5	5-10	-
White spirit	%	10-15	-	-	-	-	5-10
Xylene	%	-	5-10	-	-	-	-
Tetrahydronaphthalene	%	-	-	1-5	-	-	-
Isophorone	%	-	-	-	-	1-5	-
Tetrahydrofurfuryl alcohol	%	-	-	-	-	-	-
Flash point (°C closed up)		43	44	43	45	48	40

References

COSHH ACOP	HSC approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994
CHIP 96	Chemicals (Hazard Information and Packaging for Supply) Regulations 1996
CHIP SDS ACOPS	HSC Approved Code of Practice for Safety data Sheets in accordance with regulation 6 of the CHIP regulations
HSE EH40	HSE Guidance note EH40 on Occupational Exposure Limits to be used in conjunction with the COSH regulations

Footnote

LIABILITY

Such information is the best of Bath Potters Supplies knowledge and belief accurate at the date of publication, which is the date generated automatically on the day of printing of this document. However, no representation, warranty of guarantee is made as to its accuracy, reliability of completeness. It is the user's responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.

THIRD PARTY MATERIALS

Insofar as materials not manufactured or supplied by Bath Potters Supplies are used in conjunction with, or instead of Bath Potters Supplies materials, it is the responsibility of the customer itself to obtain from the manufacturer or supplier all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of Bath Potters Supplies materials in conjunctions with other materials.

17. National Legislation

UK Legislation

SI1993/1746 Chemicals (Hazard Information and Packaging) Regulations 1993
Environmental Protection (Duty of Care) regulations 1992 SI 2839
Carriage of Dangerous goods by Road and Rail Regulations 1994
Control of pollution Act 1974
Environmental Protection Act 1990
Highly Flammable Liquids and Petroleum Spirit Regulations 1972
EH40 Occupational Exposure Limits
SI1988/1657 The Control of Substances Hazardous to Health Regulations

Note - This is not an exhaustive list and users should satisfy themselves that they comply with all relevant National Regulations

Important notes

Design CHIP-002

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Further reference can be made to our standard terms and conditions of sale, a copy of which is available on request.

11 June 2002