

Bath Potters' Supplies

MATERIAL SAFETY DATA SHEET

1. Identification of the preparation/Supplier reference

Trade Name **Copper Oxide black**
Chemical name CuO
Synonyms Cupric oxide, copper (II) oxide
Supplier Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate,
Radstock, Nr. Bath. BA3 4XE
Emergency numbers Tel: 01761 411077
E:mail: sales@bathpotters.co.uk

2. Composition

Components.	CAS	EINECS	% of composition
Copper II oxide	1317-38-0	320038	>99%

3. Health Hazard Identification

Inhalation Excessive and repeated inhalation of the product dust may cause irritation of the respiratory tract and mucous membranes, producing a metallic taste in the mouth, nausea, metal fume fever, in some cases discolouration of the skin and hair, and give rise to symptoms like influenza.

Ingestion Exhibits low oral toxicity, but excessive consumption may cause sickness and diarrhoea. Over a prolonged period of time, repeated excessive ingestion may result in liver damage.

Eyes May give cause physical irritation and inflammation.

Skin As with most abrasive dusts, prolonged or repeated exposure may cause irritation of skin and mucous membranes.

General Copper compounds may act with exogenous agents or sub-clinical metabolic disorders to produce, in some workers, an industrially acquired atypical Wilson's disease or chronic liver damage.

4. First Aid Measures

Inhalation Remove patient to fresh air, provide rest, loosen tight clothing and, if any adverse reaction occurs, seek medical attention.

Ingestion Do not induce vomiting. Rinse mouth with water and give 200-300ml (half a pint) of water or milk to drink (provide patient is conscious). Seek medical advice.

Eyes Wash immediately with copious amounts of water for 15 minutes, paying particular attention to under the eyelid, and seek medical attention.

Skin Remove contaminated clothing. Wash affected areas with soap and water, and if any adverse reaction occurs seek medical advice.

5. Fire Fighting Measures

Extinguishing Media Suitable for surrounding fire conditions.
The product is not explosive or flammable. Standard fire fighting techniques only are required, i.e. water, carbon dioxide, dry powder, sand and chemical foam extinguishers.

Special Exposure hazard In the event of fire, the product may react violently with Al, B, Mg, K, Na, Ti, Zr.

Protective equipment Suitable for surrounding fire conditions.

6. Accidental Release Measures

Leaks & Spills Remove dry materials either by a vacuum cleaner fitted with an efficient particulate filter, or by damping down and scooping in to a receptacle prior to disposal.

Protective equipment Local exhaust ventilation is recommended to comply with occupational exposure limits (refer to Guidance Note EH40 - latest edition), personal respiratory protection should be used if local exhaust is not available.

7. Handling & Storage

Handling Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material and avoid contact with skin and eyes. Local exhaust ventilation is recommended to comply with occupational exposure limits (refer to Guidance Note EH40 - latest edition), to avoid spreading and inhalation dust in use.

Storage Store in a secure container in normal, dry conditions.

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 and preferable to personal protection (refer to Guidance Note EH40 - latest edition).

Personal protective equipment Where local exhaust is unavailable, H.S.E. - approved personal respiratory protection should be used. Suitable impervious gloves and overalls should be used along with safety goggles if contact with eyes is otherwise possible

9. Physical & Chemical properties

Appearance & Odour Fine black odourless powder.

Flash point (°C) Not applicable

Flammability Not applicable

Explosive properties Non-explosive

Oxidising properties Non-oxidising

Specific gravity 6.4

pH value (negligible solubility in water)

Melting point (°C) 1326°C

10. Stability & Reactivity

Chemical stability The material is stable under normal conditions and insoluble in water

Conditions/materials to avoid See section 5.

Hazardous decomposition products Reacts violently with Acetyl ides, Azides, Phospham and Hydrazine.

Hazardous polymerisation products None known.

11. Toxicology Information

Acute toxicology LD₅₀ Oral Not known
LD₅₀ Dermal Not known
LD₅₀ Inhalation Not known

Health effects Prolonged or repeated exposure above Occupational Exposure Standards may cause irritation of the respiratory tract and mucous membranes, producing a metallic taste in the mouth, nausea, metal fume fever, in some cases discolouration of the skin and hair, and give rise to symptoms like influenza. Copper oxide is an essential trace element, however if ingested in large quantities it is harmful and may cause sickness and diarrhoea, repeated excessive ingestion may result in liver damage.

12. Ecological information

Ecotoxicity Copper and it's salts are highly poisonous to marine invertebrates and seaweed.

Persistence No specific test data available.

13. Disposal

Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1996). Landfill is the most appropriate method

14. Transport Information

UN/SI No.		Not classified.
UN Class		Not classified.
Packing group		Not classified.
Road	UK	Not classified.
	ADR	Not classified.
Sea	IMO	Not classified.
Air	ICAO	Not classified.

15. Regulatory information

EC Supply Labelling	Harmful X_n	
R-Phrases	R20/22 Harmful by inhalation and if swallowed	
S-Phrases	S13 Keep away from food, drink and animal feeding stuffs.	
	S20/21 When using do not eat, drink or smoke	
	S22/23 Do not breathe dust or spray	
	S36/37 Wear suitable protective clothing and gloves.	
	S38 In case of insufficient ventilation wear suitable respiratory equipment.	
UK Occupational exposures limits*	Mg/m ³ 8 hr TWA	% in product
Copper oxide (as Cu)	1.0	>99%

* Refer to HSE Guidance note EH40

In accordance with the H.S.E. 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

General industrial hygiene practices are recommended when handling and using this product.

COSHH ACOP:	H.S.C. 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 ACOP:	H.S.C. 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 COSHH regulations.

The information contained in this safety data sheet has been prepared using the best available information. However, in view of technical developments this may alter.

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.

Due to the many factors outside our control when using this product we cannot accept liability for any injury, accident, loss or damage caused through its use.

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