Bath Potters' Supplies

MATERIAL SAFETY DATA SHEET

1. Identification of the preparation/Supplier reference

Trade Name	**Copper Carbonate**
Chemical name	Copper Carbonate
Synonyms	None known
Supplier	Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate, Radstock, Nr. Bath. BA3 4XE
Emergency numbers	Tel: 01761 411077 Fax: 01761 414115 Internet: coshh@bathpotters.demon.co.uk

2. Composition

Components.	CAS	EINECS	% of composition
Copper (hydroxide) carbonate	12069-69-1	2351136	70% (as CuO, dry)

3. Health Hazard Identification

Inhalation	Excessive and repeated inhalation of the product dust may cause irritation of the respiratory tract, producing a feeling of tightness.
Ingestion	The product is harmful by ingestion. May cause vomiting and diarrhoea.
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.

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 minuets, paying particular attention to under the eyelid, and seek medical attention if discomfort persists.
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	Decomposition takes place at 200°C at which point the materials emit acrid smoke and fumes.
Protective equipment	Self contained breathing apparatus.

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 at room temperature, and away from direct sunlight.

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 green odourless powder.
Flash point (ºC)	Not applicable
Flammability	Not applicable
Explosive properties	Non-explosive
Oxidising properties	Non-oxidising
Specific gravity	4
pH value	7 (insoluble in water)
Melting point (ºC)	Decomposes at approximately 200°C

10. Stability & Reactivity

Chemical stability	The material is stable under normal conditions and insoluble in water
Conditions/materials to avoid	None known.
Hazardous decomposition products	At 200°C the materials emit acrid smoke and fumes.
Hazardous polymerisation products	None known.

11. Toxicology Information

Acute toxicology	LD_{50} Oral 1350mg/kg LD_{50} Dermal Not known LD_{50} Inhalation Not known
Health effects	Prolonged or repeated exposure above Occupational Exposure Standards may cause fibrosis of the lungs. Copper bearing dusts and compounds are regarded as being toxic by ingestion. In humans the ingestion of a large quantity of Copper Sulfate has caused vomiting, gastric pain, dizziness, exhaustion, anemia, cramps, convulsions, shock, coma and death.

12. Ecological information

Ecotoxicity	Copper and it's salts are highly poisonous to marine invertebrates, fungi and seaweed.
Persistence	Not biodegradable. Water soluble.

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.		3288 Toxic solif, inorganic
UN Class		6.1
Packing group		III
Road	UK	As above
	ADR	As above 65(C)
Sea	IMO	As above
Air	ICAO	As above

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 S24/25 Avoid contact with skin and eyes S38 In case of insufficient ventilation wear suitable respiratory equipment.

UK Occupational exposures limits*	Mg/m^3 8 hr TWA	% in product
Total inhalable dust	1.0	
Total respirable dust	5	

* 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.

August 2000-08-18