

Camlab Limited – Material Safety Data Sheet

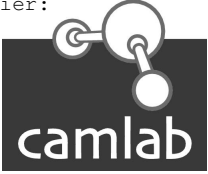
1. Identification

Product Code CC/0189-DA

Product Name CUPRIC SULPHATE 5H₂O pure

Molecular Formula CuSO₄.5H₂O =249.68

CAS Number 7758-98-7

Supplier: **CAMLAB LIMITED**
**Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE**

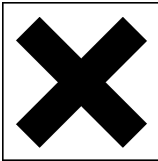
Phone 01954 233110
Fax 01954 233101

Emergency Telephone 08:00-17:00 01954 233110
24hr 112
(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
COPPER METAL POWDER (electrolytic)	7440-50-8		25.5%	Xn N :	N/A

3. Hazards Identification



Harmful if swallowed. Irritating to eyes and skin. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-use.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. Induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire.

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

6. Accidental Release Measures

Personal Protection	Avoid breathing dust.
Environmental	Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
Major Spillage	Shovel/sweep up into container for removal Wash area down with copious amounts of water.
Minor Spillage	Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions	Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.
Storage Conditions	Well ventilated, cool, dry storage .

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

Respiratory	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
Hands	Wear gloves.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance	Pale blue crystals.
Odour	No specific odour.
pH	4 (In solution)
Boiling point	Not available
Melting point	Not available
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	No.
Vapour Pressure	Not available
Relative Density	2.2860 °C
Water Solubility	Very soluble in water.

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	No specific conditions.
Materials to Avoid	No specific materials to avoid.
Hazardous Decomposition Products	May produce hazardous fumes if involved in a fire.

11. Toxicological Information

Eyes	Contact with the solid or dust may be irritating to the eyes.
Skin	Contact with the solid or solution may be irritating to the skin.

11. Toxicological Information (continued)

LD50 Skin	Not available
Ingest	Ingestion of large amounts will produce vomiting, gastric pain, dizziness, convulsions, shock, coma and possibly death. As little as 10g has been reported as causing death although victims have recovered after ingesting much larger amounts Copper salts tend to cause vomiting and for this reason poisoning by ingestion is rare . Chronic poisoning may give rise to kidney damage, enlargement of the liver and jaundice.
LD50 Ingest	Oral rat 690mg/Kg
Inhalation	Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

12. Ecological

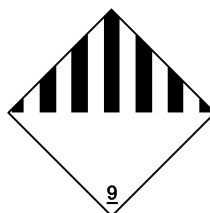
Copper salts are harmful to the environment. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

13. Disposal Considerations

Disposal Methods	Do not dispose of as domestic waste.
Contaminated Packaging	Wash out containers with water.

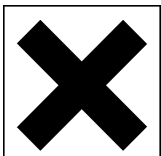

14. Transport Information

Proper Shipping Name	Environmentally Hazardous Subs
UN Number	3077
UN Classification	9 Miscellaneous
Subsidiary Risk	None
Flash Point	Not available
Packing Group	III
Transport Category	3
Marine pollutant	Yes
ADR Hazard ID	90



15. Regulatory Information

Labelling	Harmful, Dangerous for the Environment.
Classification	

Label Symbols	Xn		N	
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Risk & safety Phrases	Harmful if swallowed. Irritating to eyes and skin. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Keep out of reach of children. Do not breath dust. This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment, refer to special instructions/safety data sheet.
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EEC Number	231-847-6
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16. Other Information

Document Information	This document has been prepared in accordance with directive 88/379/EEC.
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The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

16. Other Information (continued)

Revision Date: 21/02/06.

Data reviewed and PDF file generated: 19/07/07.

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