


## 1. Identification

Product Code **1110410**

Product Name **CUPRIC SULPHATE 5H<sub>2</sub>O pure**

Molecular Formula **CuSO<sub>4</sub>.5H<sub>2</sub>O =249.68**

CAS Number **7758-98-7**

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

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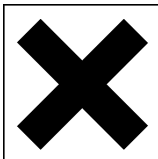
Fax **01954 233101**

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<br>(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.<br><br>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

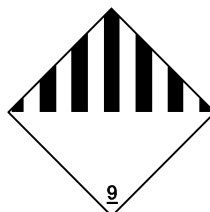
Copper salts are harmful to the environment. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

## 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 Substance, Solid, N.O.S. |
| 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 |  |
|---------------|----|--|---|--|

|                       |   |
|-----------------------|---|
| 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. |
|-----------------------|---|

|            |           |
|------------|-----------|
| EEC Number | 231-847-6 |
|------------|-----------|

## 16. Other Information

|                      |  |
|----------------------|--|
| Document Information | This document has been prepared in accordance with directive 88/379/EEC. |
|----------------------|--|

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: 17/03/10.

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