

**IVORYCHEM PTE LIMITED**

15 Beach Road #02-09, Beach Centre  
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Email: [contact@ivorychem.com](mailto:contact@ivorychem.com)  
Web: [www.ivorychem.com](http://www.ivorychem.com)  
Co. Registration No. 200405572W  
GST Registration No. 200405572W

**MATERIAL SAFETY DATA SHEET****COPPERMAX 99%**

**Version:** Global  
**Date Approved:** 08/13/1998  
**Revision No:** 1

**CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** COPPERMAX 99%  
**ACTIVE INGREDIENT:** Copper Sulfate  
**MOLECULAR FORMULA:**  $\text{CuSO}_4 \cdot 3\text{Cu}(\text{OH})_2 \cdot \text{H}_2\text{O}$   
**SYNONYMS:** Tri-Basic Copper Sulfate, Copper Sulfate Basic, Fixed Copper

**MANUFACTURER**

IVORYCHEM PTE LTD  
15 Beach Road, #02-09  
Beach Centre  
Singapore 189677  
Tel: +65 63377765  
Fax: +65 63377730

**Emergency Telephone Numbers:**

**Emergency Phone** [contact@ivorychem.com](mailto:contact@ivorychem.com) (Please refer local label for Emergency Numbers in your region).

**COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS #	Wt.%	EPA Registration No.
Copper sulphate	1344-73-6	99	46923-2

**STABILITY**

Stability : Stable at normal temperatures

Conditions to avoid : May burn, but will not ignite

Incompatibility : Mixing with acid will solubilize product, producing water soluble products

Hazardous Decomposition Products : None at normal production temperatures and pressures. If dry heated above 300° C toxic sulfur may evolve.

Polymerization : Will not occur



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### FIRE AND EXPLOSION DATA

Flash Point	:	Not applicable
Flammable Limits	:	Not flammable. If heated above 570° F it can decompose to emit toxic fumes of oxide and sulfur.
Extinguishing Media	:	Basic Copper Sulfate does not burn nor will it support combustion. Use dry chemical, Carbon Dioxide, foam or water mist or fog. If stored with other combustible products use water, CO2 or dry chemical.
Special Fire Fighting Instructions	:	If dry heated above 300° C, SO2 is evolved. If water is used, dike fire control water for later disposal. Keep away from streams or lakes.
Fire and Explosion Hazards	:	None

### TOXICOLOGY

Swallowing	:	Ingestion can cause diarrhea, vomiting and stomach pain. LD50 (rats) = 1000 mg/kg.
Skin	:	Certain individuals may be sensitive to copper
Eyes	:	Severe eye irritant. Causes substantial, but temporary eye damage. May be corrosive to eyes.
Eye irritation score	:	(Unwashed) 24 hours = 14.33 (Unwashed) 48 hours = 13.33 (Unwashed) 72 hours = 3.33 (Unwashed) 7 days = 0
Inhalation	:	Inhalation of dust may cause irritation to the upper respiration tract.
Carcinogenicity	:	None as per NTP, OSHA, and IARC.

### FIRST AID PROCEDURES

Swallowing	:	Give large amounts of milk or water. Induce vomiting. Do not give anything by mouth or induce vomiting if the person is unconscious. Call Poison Control Center or a physician.
Skin	:	Wash thoroughly with soap and water. Remove and wash

Company Registration No: 200405572W

Incorporated in the Republic of Singapore Under the Companies Act (Cap 50)



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- contaminated clothing before reuse. Get medical attention if necessary.
- Eyes : Immediately flush eyes with plenty of water for 15 minutes. Hold eyelids apart during irrigation. Call a physician.
- Inhalation : Remove person to fresh air and call a physician.

### ENVIRONMENTAL INFORMATION

Very toxic to aquatic organisms - may cause long term damage in the environment. LC50 (*L.macrochirus*): 0.7 - 1.1 mg/l

### HANDLING AND STORAGE

- Personal Protective Equipment : Chemical safety goggles. Gloves and protective clothing should be worn to prevent prolonged skin contact.
- Respiratory Protection : Wear an approved respirator for dusts or mists.

**STORING PROCEDURES:** Store in original container. Keep in a dry, cool place. Store in an area that is away from foodstuffs or animal feed, out of reach of children and animals.

**MIN/MAX STORAGE TEMPERATURES:** Not available

### ENVIRONMENTAL AND DISPOSAL INFORMATION

- Aquatic Toxicity : Daphnia LC50 at = In excess of 320 ug/liter.
- Spills and Leaks : Comply with Federal, State and local regulations on reporting spills. Do not wash away the powder. Recover dry if possible. If product is in a confined solution, pump it into a chemical waste container.
- Waste Disposal : Do not reuse container. Dispose of powder or solutions and container in accordance with Federal, State and local regulations.
- Environmental Effects : Toxic to fish and plants.

### SPECIAL PRECAUTIONS

Storage: Store in a dry place.

Other Precautions: None other than those stated in the MSDS or on the package.



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**SHIPPING INFORMATION**

DOT Shipping Name: Non-regulated

(The meaning of any UN hazard codes which appear in this section is given here.)

UN No 3077. Hazard class 9. Packing group III.

**OTHER INFORMATION**

Section(s) Revised : New Format