

# Safety Data Sheet

## Copper Sulphate

chemtex

### Section 1.

#### Chemical Product and Company Identification



In case of any emergency, contact  
Poison Control Center  
**1800-116-117**

Product Name	Copper Sulphate		
Product Description	CuSO <sub>4</sub> .5H <sub>2</sub> O; CAS No. 7758-99-8		
Manufacturer's Name	Chemtex Speciality Limited	Supplier's Name	Chemtex Speciality Limited
Address	Haute Street Corporate Park 86A Topsia Road (S), Kolkata 700046	Address	Haute Street Corporate Park 86A Topsia Road (S), Kolkata 700046
Contact Information	Ph: +91-33-7111-1111	Contact Information	Ph: +91-33-7111-1111
Email	info@chemtexltd.com	Email	info@chemtexltd.com
SDS Prepared	24-04-2018	SDS Revised	31-12-2021
Emergency Contact	No. +91-33-7111-1111	Mail: info@chemtexltd.com	

### Section 2.

#### Hazard Identification

Route of Entry	Skin, Eye Contact, Ingestion.
Eyes	Irritant. Pain, tearing and redness can occur. Crystalline dust may be abrasive.
Skin	Corrosive. Redness, pain and severe burns can occur.
Ingestion	Swallowing can cause severe burns on mouth, throat, stomach, GI tract. Causes sore throat, nausea, vomiting, diarrhea. Corrosion of teeth from long term exposure to dust, mist or fumes.
Inhalation	Damaging effects to the mucous membranes and upper respiratory tract. Irritation of nose and throat, with labored breathing. Lung irritation, tracheal bronchitis, persistent coughing.
Sub Chronic, Chronic	No effects known.

OSHA Hazard Status		Hazardous			
Class	Pictogram (if available)	Hazard	Category	Hazard Statement	P codes
GHS06: Danger - Toxic Category 1 - 3		H301	Cat. 3	Toxic if swallowed	264, 270, 301+310, 321, 330, 405, 501
GHS09: Warning - Environment Toxicity		H410	Cat.1	Very toxic to aquatic life with long-lasting effects	273, 391, 501

#### P codes

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

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P201	Obtain special instructions before use.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P391	Collect spillage.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER/doctor
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3.

Composition/ Information on Ingredients

Ingredients	CAS No.	% by wt.
Copper Sulphate, Pentahydrate	7758-99-8	100.00

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Section 4.

First Aid Measures

Eyes	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, and continue rinsing. Seek medical attention if condition persists.
Skin	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Seek medical attention immediately.
Ingestion	Call a poison control center or a doctor immediately for treatment advice. DO NOT INDUCE VOMITING. Do not give anything to drink.
Inhalation	Move person to fresh air. If person is not breathing, call ambulances, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice

**INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY. IF EXPOSED, CALL POISON CONTROL CENTER/DOCTOR/PHYSICIAN.**

Section 5.

Fire Fighting Measures

Flammable	<b>No</b>
Flash Point	N/A
Flammability Point (% by volume)	
Lower	N/A
Upper	N/A
Autoignition Temperature	N/A
Extinguishing Media	Adapt extinguishing media to the environment of surrounding fires. CO2, Dry Chemical, Dry Sand, Alcohol resistant foam
Fire Fighting Instructions	Use suitable means of extinguishing surrounding fire. Use NIOSH approved breathing apparatus.
Fire & Explosion Data	N/A
Special Hazards	N/A

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### NFPA Symbol and Label

Health	3
Flamability	1
Reactivity	1
Special Notice	

### Hazard Rating

- 4. Extreme
- 3. Serious
- 2. Moderate
- 1. Minimal
- 0. Slight

### Section 6.

#### Accidental Release Measures

Small Spill	Stop leak if without risk. Do not touch spilled material. Ventilate area of leak or spill. Neutralize residue with dilute solution of sodium carbonate.
Large Spill	Stop leak if without risk. Do not touch spilled material. Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate PPE. Scoop solid spill into closing containers for reclamation or disposal, using a method that does not generate dust.

### Section 7.

#### Handling Measures & Storage

Handling	Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Avoid generating aerosols/mists or dust. Keep containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labeled.
Storage	Store in suitable labeled containers. Store the containers tightly closed. Protect product from freezing. Keep container in a well-ventilated place.

### Section 8.

#### Exposure Controls & Personal Protection

#### Exposure Limits

N/A

#### Specific Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits

### Personal Protective Equipment

HMIS

PPE

C

Safety Glasses  
Gloves  
Apron

### Pictograms



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### Section 9. Physico-Chemical Data

Form	Crystalline Solids
Appearance	Blue
Odor	Odorless
pH (3% Solution)	4.0 ± 0.5
Specific Gravity (in dilution)	N/A
Solubility (at 20°C)	Soluble in water
Additional Physico-chemical Data	
Relative Density	2.3 (Water = 1)
Freezing Point	N/A
Vapor Pressure	N/A
VOC	N/A

### Section 10. Stability and Reactivity

Chemical Stability	Hygroscopic. Stable under normal conditions
Hazardous Polymerization	Will not occur.
Hazardous Decomposition	N/A
Conditions to avoid	Oxidizing agents, Strong Acids, Bases, Excess heat
Incompatibility	Strong Acids, Strong Bases, Oxidizing Agents
Corrosivity	N/A
Special Remarks	Toxic.

### Section 11. Toxicological Information

Product	Oral LD50 (Rat) [mg/kg]	Dermal LD50 (Rabbit) [mg/kg]	Inhalation LC50 (Rat) [mg/L] (4 hrs)
Copper Sulphate	>300	>1500	N/A

Carcinogenicity	Non Carcinogenic
Teratogenicity	Non Teratogenic
Mutagenicity	Non Mutagenic

### Section 12. Ecological Information

BOD	N/A
COD	N/A
Biodegradation	N/A
Special Remarks	N/A
Marine Pollutant	H410

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### Section 13. Disposal Considerations

RCRA Status            N/A  
P501                    Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 14. Transport Information

DOT Classification    Class

9: Miscellaneous goods



#### Classification for Air Transport (IATA/ICAO)

Proper Shipping Name

Environmentally Hazardous Substances, Solid, N.O.S

UN No.

3077

Packing Group

III

#### Classification for Sea Transport (IMO/IMDG)

Proper Shipping Name

Environmentally Hazardous Substances, Solid, N.O.S

UN No.

3077

Packing Group

III

EMS Codes

F-A, S-B

#### Classification for Road Transport (ADR/RID)

Proper Shipping Name

Environmentally Hazardous Substances, Solid, N.O.S

UN No.

3077

Packing Group

III

### Section 15. Regulatory Information

OSHA Hazard Status

Hazardous

HSN

28332500

### Section 16. Other Information

SDS Creation

24-04-2018

SDS Revision

31-12-2021

Abbreviations

N/A	Not Applicable
LEL	Lower Explosion Limit
UEL	Upper Explosion Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average
LD50	Lethal Dose Concentration that kills 50% dosed group
LC50	Lethal Concentration that kills 50% of dosed group
PPM	Parts Per Million
LSL	Lower Specification Limit
USL	Upper Specification Limit

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