

# MATERIAL SAFETY DATA SHEET (MSDS)

# **COPPER (II) SULPHATE AR (CRYSTALS) (CUPRIC SULPHATE) (PENTAHYDRATE)**

# 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : COPPER (II) SULPHATE AR (CRYSTALS) (CUPRIC SULPHATE)

(PENTAHYDRATE)

Product code : C0077400500

Identification of the product : Sulfato de cobre

CAS No:7758-99-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use** : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification SUVCHEM
Chaitanya Tower 2nd Flor

Chaitanya Tower, 2nd Floor, Office # 206,

Siddharth Nagar, S.V. Road,

Goregaon (West), Mumbai - 400062, Maharashtra, India.

Contact: +91 22 28725393 / 94 / 95 Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

**Phone no.** : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

### 2. Hazards identification -DSD

## 2.1. Classification of the substance or mixture

### Classification EC 67/548 or EC 1999/45

Classification : Xn; R22

Xi; R36/38 N; R50-53

### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

**Health hazards** : Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP

: Aquatic Acute 1) H400

Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (

CLP: Aquatic Chronic 1) H410

#### 2.2. Label elements

#### Labelling EC 67/548 or EC 1999/45



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## 2. Hazards identification -DSD (continued)

Symbol(s)





Symbol(s) : Xn : Harmful

N: Dangerous for the environment

R Phrase(s) : R22 : Harmful if swallowed.

R36/38: Irritating to eyes and skin.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

S Phrase(s) : S22 : Do not breathe dust.

S60: This material and its container must be disposed of as hazardous waste. S61: Avoid release to the environment. Refer to special instructions/Safety data

sheets.

S24/25: Avoid contact with skin and eyes.

Contains : Sulfato de cobre

### Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms





Signal words : Warning

**Hazard statements** : H302 : Harmful if swallowed.

H319 : Causes serious eye irritation.

H315: Causes skin irritation.

H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

• **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.

P273: Avoid release to the environment. P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• Response : P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel

unwell.

P332+P313: If skin irritation occurs : Get medical advice.

P391: Collect spillage.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P363: Wash contaminated clothing before reuse.

• Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste

collection point, in accordance with local, regional, national and/or international

regulation.

Contains : Sulfato de cobre

2.3. Other hazards



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## 2. Hazards identification -DSD (continued)

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

### 3. Composition/information on ingredients

Substance / Preparation : Sulfato de cobre

CAS No:7758-99-8

Substance.

 Substance name
 Contents
 CAS No
 EC No
 Annex No
 REACH Ref.
 Classification

 Sulfato de cobre
 :
 100 %
 7758-99-8
 ---- ---- ---- Xn; R22

Acute Tox. 4 (oral) \_ H302 Eye irrit 2 \_ H319 Skin Irrit. 2 \_ H315 Aquatic Acute 1 \_ H400 Aquatic Chronic 1 \_ H410

N; R50-53

Contains no other components or impurities which will influence the classification of the product.

### 4. First aid measures

#### 4.1. Description of first aid measures

**Inhalation** : Assure fresh air breathing. Allow the victim to rest.

**Skin contact** : Specific treatment (see on this label). Get medical advice. If skin irritation occurs :

Wash with plenty of soap and water. Wash contaminated clothing before reuse.

**Eye contact** : Get medical advice. If eye irritation persists : Remove contact lenses, if present and

easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

Ingestion : Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel

unwell. Rinse mouth. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms relating to use** : Swallowing a small quantity of this material will result in serious health hazard.

Causes serious eye irritation.

Causes skin irritation.

## 4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

### 5. Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media**: Do not use a heavy water stream.



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## 5. Fire-fighting measures (continued)

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory

protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to

enter environment.

#### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**For emergency responders** : Equip cleanup crew with proper protection.

Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters

sewers or public waters.

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible. Collect spillage. Store away from other materials.

## 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

### 7. Handling and storage

#### 7.1. Precautions for safe handling

**Handling**: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Wash thoroughly after handling.

**Technical protective measures**: Provide good ventilation in process area to prevent formation of vapour.

#### 7.2. Conditions for safe storage, including any incompatibilities



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### 7. Handling and storage (continued)

Storage : Keep only in the original container in a cool, well ventilated place. Keep container

closed when not in use.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

### 8. Exposure controls/personal protection

#### 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

Respiratory protection
 Hand protection
 Wear approved mask.
 Wear protective gloves.

Skin protection
 Eye protection
 Chemical goggles or safety glasses.
 Others
 Wear suitable protective clothing.
 Chemical goggles or safety glasses.
 When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

### 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Solid.

Colour : Blue
Odour : Odorless

Odour threshold : No data available. pH value : No data available.

: 110 °C Melting point [°C] Decomposition point [°C] : N/A Critical temperature [°C] : N/A : N/A Auto-ignition temperature [°C] : N/A Flammability (solid, gas) Flash point [°C] : N/A : > 1500C Boiling point [°C] Initial boiling point [°C] : N/A Final boiling point [°C] : N/A **Evaporation rate** : N/A



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## 9. Physical and chemical properties (continued)

Vapour pressure [20°C] : 9.5 hPa at 20 °C

Vapour pressure mm/Hg : N/A
Vapour density : N/A
Density [g/cm3] : 2,28
Relative density, gas (air=1) : N/A
Relative density, liquid (water=1) : N/A

**Solubility in water [% weight]** : 31.6g/100cc H20 @ 00

Solubility in water : N/A

**Log Pow octanol / water at 20°C** : No data available.

Solubility : 3.7 - 4.5 Viscosity at 40°C [mm2/s] : N/A

9.2. Other information

Explosive properties : N/A
Explosion limits - upper [%] : N/A
Explosion limits - lower [%] : N/A

Oxidising properties : No data available.

## 10. Stability and reactivity

10.1. Reactivity

**Reactivity** : Not established.

10.2. Chemical stability

**Chemical stability** : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

**Hazardous reactions** : Not established.

10.4. Conditions to avoid

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

**Hazardous decomposition products**: Fumes. Carbon monoxide. Carbon dioxide.



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## 11. Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity** 

Inhalation
 Based on available data, the classification criteria are not met.
 Dermal
 Based on available data, the classification criteria are not met.

• Ingestion : Harmful if swallowed.

**Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : Causes serious eye irritation.

Causes skin irritation.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

## 12. Ecological information

12.1. Toxicity

**Toxicity information**: Very toxic to aquatic life with long lasting effects.

12.2. Persistence - degradability

**Persistence - degradability** : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

**Environmental precautions** : Avoid release to the environment.



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## 13. Disposal considerations

### 13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with

local/national regulations.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## 14. Transport information

### 14.1. Land transport (ADR-RID)

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN N° : 3077 H.I. nr : 90 ADR - Class : 9

**Labelling - Transport** : 9 : Miscellaneous dangerous substances and articles.



ADR - Classification code : M7
ADR - Group : III

ADR - Packing instructions : P002 R001 LP002

ADR - Limited Quantity : 5 KG

**ADR - Tunnel code** : E : Passage forbidden through tunnels of category E.



### 14.2. Sea transport (IMDG) [English only]

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN N° : 3077

**IMO-IMDG - Class or division** : 9 : Miscellaneous dangerous substances and articles.

IMO-IMDG - Packing group : III

IMO- IMDG - Packing instructions: P002 LP02IMO-IMDG - Limited quantities: 5 kgIMO-IMDG - Marine pollution: YesEMS-Nr: F-A S-F

## 14.3. Air transport (ICAO-IATA) [English only]



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## 14. Transport information (continued)

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN N° : 3077

IATA - Class or division : 9 : Miscellaneous dangerous substances and articles.

IATA - Packing group : III

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing : 956

instruction

- Passenger and Cargo - Maximum : 400 kg

Quantity/Packing

IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 956
- Cargo only - Maximum Quantity/ : 400 kg

Packing

IATA - Limited Quantites : 30 kg G ERG-Nr : 9L

#### 15. Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental

regulations/legislation specific for the

substance or mixture

: Ensure all national/local regulations are observed.

: The components of this product are not subject to restrictions.: The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

**REACH Restrictions - Annex XVII** 

**REACH Authorisation - Annex XIV** 

Chemical Safety Assessment : It has not been carried out.

#### 16. Other information

Revision - See : \*

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF

THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and

1999/45/EC, and amending Regulation (EC) No 1907/2006

List of relevant R phrases (heading 3): R22: Harmful if swallowed.

R36/38: Irritating to eyes and skin.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

List of full text of H-statements in

section 3

: H302 : Harmful if swallowed. H315 : Causes skin irritation.



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## COPPER (II) SULPHATE AR (CRYSTALS) (CUPRIC SULPHATE) (PENTAHYDRATE)

In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

## **DISCLAIMER:**

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