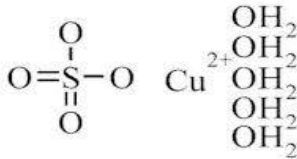


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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers:

Product form : Substance
 Substance name : Copper sulphate pentahydrate
 CAS No : 7758-99-8
 Formula : CuSO₄.5H₂O



1.2 Relevant identified uses of the substance or mixture and uses advised again

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Sujata Nutri-Pharma Pvt. Ltd.
 875/2 GIDC Estate Makarpura Vadodara 390010, Gujarat , India
 Telephone : 0265-3500351
 Website : www.sujatanutripharma.com
 Email : info@sujatanutripharma.com

1.4 Emergency telephone number




Emergency telephone : 02652630282 (9:00 to 6:00) office hours only

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302
 Skin irritation (Category 2), H315
 Eye irritation (Category 2), H319
 Acute aquatic toxicity (Category 1), H400

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Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn	Harmful	R22
Xi	Irritant	R36/38
N	Dangerous for the environment	R50/53

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labeling according Regulation (EC) No 1272/2008

Pictogram



GHS07

Signal word Warning

Hazard statement(s)




H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273	Avoid release to the environment.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/ container to an approved waste disposal plant.
Supplemental Statements	Hazard none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Cupric sulfate pentahydrate
 Formula : CuO₄S · 5H₂O
 Molecular weight : 249,69 g/mol
 CAS-No. : 7758-99-8
 EC-No. : 231-847-6

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Copper sulphate pentahydrate		
CAS-No. 7758-99-8	Acute Tox. 4; Skin Irrit. 2; Eye	<= 100 %
EC-No. 231-847-6	Irrit. 2; Aquatic Acute 1;	
Index-No. 029-004-00-0	Aquatic Chronic 1;	
	H302, H315, H319, H410	

Hazardous ingredients according to Directive 1999/45/EC

Component	Classification	Concentration
Copper sulphate pentahydrate		
CAS-No. 7758-99-8	Xn, N, R22 - R36/38 - R50/53	<= 100 %
EC-No. 231-847-6		

Section 4: First Aid Measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.




4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

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5.1 Extinguishing media Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Sulphur oxides, Copper oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13

Section 7: Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store at ambient/room temperature away from sunlight in a tightly closed condition.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8: Exposure Controls/Personal Protection




8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

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Eyeface protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).




Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

- a) Appearance Form: crystalline Colour: blue
- b) Odour No data available
- c) Odour Threshold No data available
- d) pH 3,7 - 4,5 at 50 g/l at 25 °C
- e) Melting point/freezing Melting point/range: 110 °C - dec. point
- f) Initial boiling point and No data available boiling range
- g) Flash point No data available
- h) Evaporation rate No data available
- i) Flammability (solid, gas) No data available
- j) Upper/lower No data available flammability or explosive limits
- k) Vapour pressure 9,7 hPa at 25 °C
- l) Vapour density No data available
- m) Relative density 2,284 g/cm³
- n) Water solubility No data available
- o) Partition coefficient: n- No data available octanol/water
- p) Auto-ignition No data available temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available

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t) Oxidizing properties No data available

9.2 Other safety information

No data available

Section 10 : Stability and Reactivity Data

10.1 Reactivity No data available

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No data available

10.4 Conditions to avoid Exposure to moisture

10.5 Incompatible materials

Powdered metals, Anhydrous copper(II) sulfate, reacts violently with:, hydroxylamine, Magnesium

10.6 Hazardous decomposition products Other decomposition products - No data available In the event of fire: see section 5

Section 11 : Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 482 mg/kg (OECD Test Guideline 401) Remarks: anhydrous LD50 Dermal - Rat - > 2.000 mg/kg Remarks: anhydrous

Skin corrosion/irritation Irritating to skin.

Serious eye damage/eye irritation Irritating to eyes.

Respiratory or skin sensitisation Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity No data available

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

Reproductive toxicity No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information RTECS: GL8900000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 : Ecological Information

12.1 Toxicity

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 0,024 mg/l - 48 h other aquatic invertebrates

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.




12.3 Bioaccumulative potential No data available

12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects Very toxic to aquatic life with long lasting effects.

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Sujata
Nutri-Pharma

SUJATA NUTRI-PHARMA PVT. LTD.
875/2, GIDC Estate, Makarpura, Vadodara-390010

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Xn Harmful 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.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sujata Nutri-Pharma Pvt.Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

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