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MATERIAL SAFETY DATA SHEET (MSDS)
COPPER (II) NITRATE AR (TRIHYDRATE) (CUPRIC NITRATE)
1. Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

Trade name : COPPER (II) NITRATE AR (TRIHYDRATE) (CUPRIC NITRATE)

Product code : C0076900500

Identification of the product : CUPRIC NITRATE AR (TRIHYDRATE) 99.5%
 CAS No :10031-43-3

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 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
 C; R34
 Xi; R36/38

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

Health hazards : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

2.2. Label elements
Labelling EC 67/548 or EC 1999/45

Symbol(s)



MATERIAL SAFETY DATA SHEET (MSDS)
COPPER (II) NITRATE AR (TRIHYDRATE) (CUPRIC NITRATE)
2. Hazards identification -DSD (continued)

Symbol(s)	: O : Oxidizing C : Corrosive
R Phrase(s)	: R22 : Harmful if swallowed. R36/38 : Irritating to eyes and skin.
S Phrase(s)	: S17 : Keep away from combustible material. S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection. S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms


Signal words	: Warning
Hazard statements	: H302 : Harmful if swallowed.
Precautionary statements	
• Prevention	: P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product.
• Response	: P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.
• 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.

2.3. Other hazards

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.
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3. Composition/information on ingredients

Substance / Preparation	: CUPRIC NITRATE AR (TRIHYDRATE) 99.5% CAS No :10031-43-3 Substance.
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

MATERIAL SAFETY DATA SHEET (MSDS)
COPPER (II) NITRATE AR (TRIHYDRATE) (CUPRIC NITRATE)
4. First aid measures (continued)

Inhalation	: Assure fresh air breathing. Allow the victim to rest.
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
Ingestion	: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

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.
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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).
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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.
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.
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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

MATERIAL SAFETY DATA SHEET (MSDS)
COPPER (II) NITRATE AR (TRIHYDRATE) (CUPRIC NITRATE)
6. Accidental release measures (continued)

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

6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust. 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 : Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

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** : Wear approved mask.
 • **Hand protection** : Wear protective gloves.
 • **Eye protection** : Chemical goggles or safety glasses.
 • **Others** : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

MATERIAL SAFETY DATA SHEET (MSDS)
COPPER (II) NITRATE AR (TRIHYDRATE) (CUPRIC NITRATE)
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	: Not applicable.
Melting point [°C]	: 1150C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 1700C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm3]	: 2,05
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: 138g/100ml water @ 0
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
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

MATERIAL SAFETY DATA SHEET (MSDS)
COPPER (II) NITRATE AR (TRIHYDRATE) (CUPRIC NITRATE)
10. Stability and reactivity (continued)

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.

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

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.

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

12. Ecological information
12.1. Toxicity

MATERIAL SAFETY DATA SHEET (MSDS)
COPPER (II) NITRATE AR (TRIHYDRATE) (CUPRIC NITRATE)
12. Ecological information (continued)

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

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.

13. Disposal considerations
13.1. Waste treatment methods

 General : 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 : NITRATES, INORGANIC, N.O.S.
 UN N° : 1477
 H.I. nr : 50
 ADR - Class : 5.1
 Labelling - Transport : 5.1 : Oxidizing substances.


MATERIAL SAFETY DATA SHEET (MSDS)

COPPER (II) NITRATE AR (TRIHYDRATE) (CUPRIC NITRATE)

ADR - Classification code	: O2 O2 O2
ADR - Group	: II
ADR - Packing instructions	: P002
ADR - Limited Quantity	: 1 KG
ADR - Tunnel code	



: E : Passage forbidden through tunnels of category E.

Proper shipping name	: NITRATES, INORGANIC, N.O.S.
UN N°	: 1477
IMO-IMDG - Class or division	: 5.1 : Oxidizing substances.
IMO-IMDG - Packing group	: II
IMO- IMDG - Packing instructions	: P002
IMO-IMDG - Limited quantities	: 1 kg
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-A S-Q

Proper shipping name	: NITRATES, INORGANIC, N.O.S.
UN N°	: 1477
IATA - Class or division	: 5.1 : Oxidizing substances.
IATA - Packing group	: II
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 558
- Passenger and Cargo - Maximum Quantity/Packing	: 5 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 562
- Cargo only - Maximum Quantity/Packing	: 25 kg
IATA - Limited Quantities	: 2.5 kg
ERG-Nr	: 5L

MATERIAL SAFETY DATA SHEET (MSDS)

COPPER (II) NITRATE AR (TRIHYDRATE) (CUPRIC NITRATE)

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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