

MATERIAL SAFETY DATA SHEET

Product Name: Bis(ethylenediamine)copper(II) hydroxide
solution 1.0 M IN H₂O

CAS No.: 14552-35-3 **Version:** 0

1. Identification

Product Code : 91738
Company Name : Advent Chembio Private Limited
Address : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR
ROAD, RABALE, NAVI MUMBAI - 400 701.
E-mail : info@adventchembio.com
WEBSITE : www.adventchembio.com
Company Phone Number : 022-27690837

2. Hazards Identification**Hazard classification**

Skin corrosion : Category 1B

Labels elements

Hazard symbol



Signal word : Danger

Hazard statement : Causes severe skin burns and eye damage.

Precautionary statement : Wash hands thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/
face protection.

IF SWALLOWED: Immediately call a POISON
CENTER/doctor.

IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue
rinsing.

Immediately call a POISON CENTER/doctor.

**Supplemental Hazard
Statements** : None

3. Composition/information on ingredients

Ingredient : Copper(II)-ethylenediamine complex

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Percent : 0.95-1.10 M
Formula : C₄H₁₈CuN₄O₂
Molecular Weight : 217.76 g/mol

4. First Aid Measures**Description of first aid measures**

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

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

Skin contact : Wash off with soap and plenty of water. Consult a physician.

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

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

Most important symptoms and effects, both acute and delayed : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed : No data available

5. Fire fighting measures**Extinguishing media**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture : Carbon oxides, Nitrogen oxides (NO_x), Copper oxides

Advice for firefighters : Wear self contained breathing apparatus for firefighting if necessary.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions : Do not let product enter drains.

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Methods and materials for containment and cleaning up : Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. Handling and storage

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.

Conditions for safe storage, including any incompatibilities : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Air and light sensitive.

8. Exposure Controls / Personal Protection

Exposure limit : No data available

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Respiratory protection : Air-purifying respirators

Hand protection : Handle with gloves

Eye protection : Face shield and safety glasses

Skin and Body Protection : Complete suit protecting against chemicals

9. Physical and Chemical Properties

Appearance : Dark blue liquid.

Odor : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flash Point : No data available

Vapor pressure : No data available

Vapor density : No data available

Relative density : No data available

Solubility in water : No data available

Solubility (other) : No data available

10. Stability and Reactivity

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Reactivity	:	No data available
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	No data available
Conditions to avoid	:	No data available
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO _x), Copper oxides

11. Toxicological Information**Information on toxicological effects**

Acute toxicity	:	No data available
Skin corrosion/irritation	:	No data available
Serious eye damage/eye irritation	:	No data available
Respiratory or skin sensitization	:	No data available
Germ cell mutagenicity	:	No data available
Carcinogenicity		
IARC	:	No data available
NTP	:	No data available
OSHA	:	No data available
Reproductive toxicity	:	No data available
Route of Exposure	:	No data available
Signs and Symptoms of Exposure	:	No data available

12. Ecological Information

Toxicity	:	No data available
Persistence and degradability	:	No data available
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available
Other adverse effects	:	No data available

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13. Disposal consideration

- Disposal instructions** : Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging** : Dispose of as unused product.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	1761	CUPRIETHYLENEDIAMINE SOLUTION	8 (6.1)	II	yes
IMDG	1761	CUPRIETHYLENEDIAMINE SOLUTION	8 (6.1)	II	yes
IATA	1761	CUPRIETHYLENEDIAMINE SOLUTION	8 (6.1)	II	yes

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information

Issue Date :08/04/2017

Version : 0

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