

MATERIAL SAFETY DATA SHEET**Product Name:** Copper (II) chloride dihydrate**CAS No.:** 10125-13-0 **Version:** 0**1. Identification**

Product Code : 90146, 90380
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**

Corrosive to metals : Category 1
Acute toxicity, Oral : Category 4
Acute toxicity, Dermal : Category 4
Skin irritation : Category 2
Serious eye damage : Category 1
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

Label elements**Hazard symbol****Signal word** : Danger**Hazard statement** : May be corrosive to metals.
Harmful if swallowed or in contact with skin
Causes skin irritation.
Causes serious eye damage.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.**Precautionary statement** : Avoid release to the environment.
Wear protective gloves/ eye protection/ face protection.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.**Supplemental Hazard Statements** : None

MATERIAL SAFETY DATA SHEET**Product Name:** Copper (II) chloride dihydrate**CAS No.:** 10125-13-0 **Version:** 0**3. Composition/information on ingredients**

Ingredient	CAS No	Percent
Copper (II) chloride dihydrate	10125-13-0	NLT- 99.0%

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	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. 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
Treatment	:	

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	:	Hydrogen chloride gas, Copper oxides
Advice for firefighters	:	Wear self contained breathing apparatus for fire fighting if necessary
Further information	:	Use water spray to cool unopened containers.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency	:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate
---	---	---

MATERIAL SAFETY DATA SHEET**Product Name:** Copper (II) chloride dihydrate**CAS No.:** 10125-13-0 **Version:** 0

procedures	:	ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
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.
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.
Reference to other sections	:	For disposal see section 13.

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. Hygroscopic
Specific end use(s)	:	No data available

8. Exposure Controls Personal Protection**Control parameters****Components with workplace control parameters****Exposure controls**

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

Eye/face 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 Hand 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

: Respiratory protection is required.

MATERIAL SAFETY DATA SHEET**Product Name:** Copper (II) chloride dihydrate**CAS No.:** 10125-13-0 **Version:** 0**9. Physical and Chemical Properties**

Appearance	: Bluish green hygroscopic crystals.
Odor	: 3.0 – 3.8
pH	: No data available
Melting point/freezing point	: 100 °C
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	: 2.51 g/cm ³
Solubility in water	: No data available
Solubility (other)	: No data available
Formula	: Cl ₂ Cu · 2H ₂ O
Molecular Weight	: 170.48 g/mol

10. Stability and Reactivity

Reactivity	: No data available
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: No data available
Conditions to avoid	: Heat. Exposure to moisture.
Incompatible materials	: Alkali metals
Hazardous decomposition products	: No data available

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

Acute toxicity	: LD50 Oral - rat - 336 mg/kg Inhalation: no data available LD50 Dermal - rat - male - > 2.000 mg/kg LD50 Dermal - rat - female - 1.224 mg/kg
Skin corrosion/irritation	: Irritating to skin.
Serious eye damage/eye irritation	: Irritating to eyes.
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: IARC:

MATERIAL SAFETY DATA SHEET**Product Name:** Copper (II) chloride dihydrate**CAS No.:** 10125-13-0 **Version:** 0

	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
Potential health effects	
Inhalation	: No data available
Ingestion	: No data available
Skin	: No data available
Eyes	: No data available
Signs and Symptoms of Exposure	: Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease.

12. Ecological Information

Toxicity	: Toxicity to fish: LC50 - Cyprinus carpio (Carp) - 0,12 - 0,23 mg/l - 96,0 h LC50 - Lepomis macrochirus - 0,9 mg/l - 96,0 h NOEC - Ictalurus punctatus - 0,013 mg/l - 60 d
Persistence and degradability	: No data available
Bioaccumulative potential	: No data available
Mobility in soil	: No data available
Other adverse effects	: Very toxic to aquatic life. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. Disposal consideration

Disposal instructions	: Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated packaging	: Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

MATERIAL SAFETY DATA SHEET**Product Name:** Copper (II) chloride dihydrate**CAS No.:** 10125-13-0 **Version:** 0**14. Transport Information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	2802	COPPER CHLORIDE	8	III	Yes
IMDG	2802	COPPER CHLORIDE	8	III	Yes
IATA	2802	COPPER CHLORIDE	8	III	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 :01/08/2014****Version : 0**

Disclaimer: This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. ADVENT CHEMBIO PRIVATE LIMITED makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the technical instructor in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of ADVENT CHEMBIO PRIVATE LIMITED and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).