

# Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company  
Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,  
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)  
Tel : + 91 98200 41841 Email : [info@ottokemi.com](mailto:info@ottokemi.com) Web : [www.ottokemi.com](http://www.ottokemi.com)

Creation Date: 20-08-2026

Revision Date: 18-07-2021

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Product identifiers

Product Name: Copper(II) chloride, dihydrate  $\geq 99.995\%$   
Product Code: C 2674  
CAS No: 10125-13-0

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  
OTTO CHEMIE PVT LTD  
No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,  
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number  
Phone no. : + 91 98200 41841 (10 : 00 am – 06 : 00 pm)

### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture  
Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4

Acute toxicity, Category 4

Skin irritation, Category 2

Serious eye damage, Category 1

Short-term (acute) aquatic hazard,  
Category 1

Long-term (chronic) aquatic hazard,  
Category 2

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word

Hazard statements

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

:  
: Danger

: H302 + H312 Harmful if swallowed or in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/  
eye protection/ face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER/  
doctor if you feel unwell.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of  
water. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with  
water for several minutes. Remove contact  
lenses, if present and easy to do. Continue rinsing.

:

Danger

Causes serious eye damage.

Reduced Labelling ( $\leq 125$  ml)

Hazard pictograms

Signal word

Hazard Statements

H318

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Precautionary Statements  
P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue  
rinsing.  
none

Supplemental Hazard  
Statements

## 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.  
Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.  
Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : Cupric chloride dihydrate  
EC-No. : 231-210-2

#### Components

| Chemical name                 | CAS-No.<br>EC-No.       | Concentration (%)<br>w/w) | M-Factor, SCL, ATE                                                                                                                                                     |
|-------------------------------|-------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Copper(II) chloride dihydrate | 10125-13-0<br>231-210-2 | >= 90 - <= 100            | M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity estimate Acute oral toxicity: 584 mg/kg Acute dermal toxicity: 1.224 mg/kg |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

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

If inhaled : After inhalation: fresh air.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact : After eye contact: rinse out with plenty of water.

Immediately call in ophthalmologist. Remove contact lenses.

If swallowed : After swallowing: immediately make victim drink water (two glasses at most).

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 GHS label elements) and/or in section 11

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

No data available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

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

Specific hazards during fire fighting

Not combustible.

Ambient fire may liberate hazardous vapours.

Hazardous combustion products

Hydrogen chloride gas

Copper oxides

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## 5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information : Suppress (knock down) gases/vapours/mists with a water spray jet.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6: Accidental release measures

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

Personal precautions : Advice for non-emergency personnel:

Avoid inhalation of dusts.

Avoid substance contact.

Ensure adequate ventilation.

Evacuate the danger area, observe emergency procedures, consult an expert.

Wear appropriate personal protective equipment, as indicated in Section 8.

### 6.2 Environmental precautions

Environmental precautions

Do not let product enter drains.

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

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### 6.4 Reference to other sections

For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Work under hood. Do not inhale substance/mixture.

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2 GHS label elements

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

Further information on

storage conditions

Tightly closed. Dry.

Storage class (TRGS 510) : 8B, Non-combustible, corrosive hazardous materials

Further information on

storage stability

hygroscopic

Recommended storage temperature

Recommended storage temperature see product label.

### 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

Occupational Exposure Limits

### 8.2 Exposure controls

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Tightly fitting safety goggles

Hand protection

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,11 mm

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Protective index : Full contact

Manufacturer : KCL 741 Dermatril® L

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,11 mm

Protective index : Splash contact

Manufacturer : KCL 741 Dermatril® L

Remarks : This recommendation applies only to the product

stated in the safety data sheet, supplied by us and

for the designated use. When dissolving in or mixing

with other substances and under conditions deviating

from those stated in EN 16523-1 please contact the  
supplier of CE-approved gloves (e.g. KCL GmbH, D36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Skin and body protection : protective clothing

Respiratory protection : required when dusts are generated.

Our recommendations on filtering respiratory

protection are based on the following standards: DIN

EN 143, DIN 14387 and other accompanying

standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P2

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory

protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Environmental exposure controls

Advice : Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state

: Powder or crystals

Form

: crystalline

Colour

: dark blue

Odour

: No data available

Melting point/ range

: 100 °C

Method: dec.

Boiling point

: No data available

Flammability

: The product is not flammable.

Upper explosion limit /

: No data available

Upper flammability limit

Lower explosion limit /

: No data available

Lower flammability limit

Flash point

: Not applicable

Autoignition temperature

: Not applicable

Decomposition

: No data available

temperature

pH

: 3,0 - 3,8

Viscosity, dynamic

: No data available

Viscosity, kinematic

: No data available

Flow time

: No data available

Water solubility

: No data available

Partition coefficient: noctanol/water

: Not applicable for inorganic substances

Vapour pressure

: No data available

Relative density

: No data available

Density

: ca. 2,53 g/cm<sup>3</sup> (20 °C)

Relative vapour density

: No data available

### 9.2 Other information

Explosives

: Not classified as explosive.

Oxidizing properties

: none

Burning rate

: No data available

Evaporation rate

: No data available

Molecular weight

: 170,48 g/mol

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Violent reactions possible with:

Alkali metals

Strong oxidizing agents

Risk of explosion with:

Acetylene

Possible formation of:

acetylidene

### 10.4 Conditions to avoid

Conditions to avoid : Heat

Exposure to moisture

no information available

### 10.5 Incompatible materials

Materials to avoid : various metals

### 10.6 Hazardous decomposition products

For Hazardous combustion products in the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 0,039 mg/l

End point: mortality

Exposure time: 96 h

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 203 GLP: yes

Remarks: The value is given in analogy to the following substances:

The value is given in analogy to the following

substances: Copper (I)-chloride

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,25 mg/l

Exposure time: 48 h

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 202 GLP: yes

Remarks: The value is given in analogy to the following substances:

The value is given in analogy to the following

substances: Copper (I)-chloride

Toxicity to fish (Chronic toxicity)

NOEC: 0,016 mg/l

Exposure time: 78 d

Species: Oncorhynchus mykiss (rainbow trout)

Test Type: flow-through test

Analytical monitoring: yes

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Method: OECD Test Guideline 210

Remarks: The value is given in analogy to the following substances:

The value is given in analogy to the following substances: copper(II) chloride

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

The value is given in analogy to the following substances: copper(II) chloride

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

The value is given in analogy to the following substances: copper(II) chloride

Components:

Copper(II) chloride dihydrate:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 0,039 mg/l

End point: mortality

Exposure time: 96 h

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 203 GLP: yes

Remarks: The value is given in analogy to the following substances:

The value is given in analogy to the following substances: Copper (I)-chloride

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,25 mg/l

Exposure time: 48 h

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 202 GLP: yes

Remarks: The value is given in analogy to the following substances:

The value is given in analogy to the following substances: Copper (I)-chloride

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity)

NOEC: 0,016 mg/l

Exposure time: 78 d

Species: Oncorhynchus mykiss (rainbow trout)

Test Type: flow-through test

Analytical monitoring: yes

Method: OECD Test Guideline 210

Remarks: The value is given in analogy to the following substances:

The value is given in analogy to the following substances: copper(II) chloride

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

The value is given in analogy to the following substances: copper(II) chloride

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

The value is given in analogy to the following substances: copper(II) chloride

12.2 Persistence and degradability

Components:

Copper(II) chloride dihydrate:

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

12.3 Bioaccumulative potential

Components:

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Copper(II) chloride dihydrate:

Partition coefficient: octanol/water

Remarks: Not applicable for inorganic substances

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

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 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Components:

Copper(II) chloride dihydrate:

Additional ecological information

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

## SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 2802

IMDG : UN 2802

IATA : UN 2802

14.2 UN proper shipping name

ADR : COPPER CHLORIDE

IMDG : COPPER CHLORIDE

IATA : Copper chloride

14.3 Transport hazard class(es)

|  | Class | Subsidiary risks |
|--|-------|------------------|
|--|-------|------------------|

|     |     |  |
|-----|-----|--|
| ADR | : 8 |  |
|-----|-----|--|

|      |     |  |
|------|-----|--|
| IMDG | : 8 |  |
|------|-----|--|

|      |     |  |
|------|-----|--|
| IATA | : 8 |  |
|------|-----|--|

14.4 Packing group

|     |  |  |
|-----|--|--|
| ADR |  |  |
|-----|--|--|

|               |       |  |
|---------------|-------|--|
| Packing group | : III |  |
|---------------|-------|--|

|                     |      |  |
|---------------------|------|--|
| Classification Code | : C2 |  |
|---------------------|------|--|

|                       |      |  |
|-----------------------|------|--|
| Hazard Identification | : 80 |  |
|-----------------------|------|--|

|        |  |  |
|--------|--|--|
| Number |  |  |
|--------|--|--|

|        |     |  |
|--------|-----|--|
| Labels | : 8 |  |
|--------|-----|--|

|                         |       |  |
|-------------------------|-------|--|
| Tunnel restriction code | : (E) |  |
|-------------------------|-------|--|

|      |  |  |
|------|--|--|
| IMDG |  |  |
|------|--|--|

|               |       |  |
|---------------|-------|--|
| Packing group | : III |  |
|---------------|-------|--|

|        |     |  |
|--------|-----|--|
| Labels | : 8 |  |
|--------|-----|--|

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|                                          |                                  |
|------------------------------------------|----------------------------------|
| EmS Code                                 | : F-A, S-B                       |
| IATA (Cargo)                             |                                  |
| Packing instruction (cargo aircraft)     | : 864                            |
| Packing instruction (LQ)                 | : Y845                           |
| Packing group                            | : III                            |
| Labels                                   | : Class 8 - Corrosive substances |
| IATA_P (Passenger)                       |                                  |
| Packing instruction (passenger aircraft) | : 860                            |
| Packing instruction (LQ)                 | : Y845                           |
| Packing group                            | : III                            |
| Labels                                   | : Class 8 - Corrosive substances |
| 14.5 Environmental hazards               |                                  |
| ADR                                      |                                  |
| Environmentally hazardous                | : yes                            |
| IMDG                                     |                                  |
| Marine pollutant                         | : yes                            |
| 14.6 Special precautions for user        |                                  |

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments  
Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

REACH - List of substances subject to authorisation (Annex XIV)

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1 ENVIRONMENTAL HAZARDS

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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