

### MATERIAL SAFETY DATA SHEET (MSDS)

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

##### 1.1. Product identifier

|              |                |
|--------------|----------------|
| Product form | : Substance    |
|              | :              |
| EC index no  | : 029-001-00-4 |
| EC no        | : 231-842-9    |
| CAS No       | : 7758-89-6    |
| Product code | : 03095        |

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

###### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

###### 1.2.2. Uses advised against

No additional information available

##### 1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries  
1st Floor , Above Bank of India, Guru Vihar , Rahon Road,  
Ludhiana Pb. (141007)  
+91 9316777775, +91 7707855700  
[sales@labogens.com](mailto:sales@labogens.com) - [www.Labogens.com](http://www.Labogens.com)

##### 1.4. Emergency telephone number

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H302  
Category 4  
Hazardous to the aquatic H410  
environment — Chronic  
Hazard, Category 1

Full text of classification categories and H statements : see section 16

###### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22  
N; R50/53

Full text of R-phrases: see section 16

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### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H302 - Harmful if swallowed  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P273 - Avoid release to the environment  
P501 - Dispose of contents/container to ...

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : CUPROUS CHLORIDE  
CAS No : 7758-89-6  
EC no : 231-842-9  
EC index no : 029-001-00-4

Full text of R- and H-phrases: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.  
First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.  
First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after ingestion : 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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours.  
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

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### 8.2. Exposure controls

|                          |                                      |
|--------------------------|--------------------------------------|
| Hand protection          | : Protective gloves                  |
| Eye protection           | : Chemical goggles or safety glasses |
| Skin and body protection | : Wear suitable protective clothing  |
| Respiratory protection   | : Wear respiratory protection        |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                          |
|--|--------------------------|
| Physical state                             | : Solid                  |
| Colour                                     | : Greyish white.         |
| Odour                                      | : odourless.             |
| Odour threshold                            | : No data available      |
| pH   | : 5 at 50 g/l at 20 °C   |
| Relative evaporation rate (butylacetate=1) | : No data available      |
| Melting point                              | : 430 °C                 |
| Freezing point                             | : No data available      |
| Boiling point                              | : 1490 °C                |
| Flash point                                | : No data available      |
| Auto-ignition temperature                  | : No data available      |
| Decomposition temperature                  | : No data available      |
| Flammability (solid, gas)                  | : No data available      |
| Vapour pressure                            | : 0.975 mm Hg at 546°C   |
| Relative vapour density at 20 °C           | : No data available      |
| Relative density                           | : No data available      |
| Density                                    | : 4.14 g/cm <sup>3</sup> |
| Solubility                                 | : Water: 0.62 g/100ml    |
| Log Pow                                    | : No data available      |
| Viscosity, kinematic                       | : No data available      |
| Viscosity, dynamic                         | : No data available      |
| Explosive properties                       | : No data available      |
| Oxidising properties                       | : No data available      |
| Explosive limits                           | : No data available      |

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

No additional information available

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Skin corrosion/irritation : Not classified  
pH: 5 at 50 g/l at 20 °C

Serious eye damage/irritation : Not classified  
pH: 5 at 50 g/l at 20 °C

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Harmful if swallowed.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

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### 12.2. Persistence and degradability

#### CUPROUS CHLORIDE (7758-89-6)

|                               |   |
|-------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
|-------------------------------|---|

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

|               |                 |
|---------------|-----------------|
| UN-No. (ADR)  | : 2802          |
| UN-No. (IMDG) | : 2802          |
| UN-No.(IATA)  | : 2802          |
| UN-No.(ADN)   | : Not regulated |
| UN-No. (RID)  | : Not regulated |

### 14.2. UN proper shipping name

|                                       |   |
|---------------------------------------|---|
| Proper Shipping Name (ADR)            | : COPPER CHLORIDE   |
| Proper Shipping Name (IMDG)           | : COPPER CHLORIDE   |
| Proper Shipping Name (IATA)           | : COPPER CHLORIDE   |
| Proper Shipping Name (ADN)            | : Not regulated   |
| Proper Shipping Name (RID)            | : Not regulated   |
| Transport document description (ADR)  | : UN 2802 COPPER CHLORIDE, 8, III, (E), ENVIRONMENTALLY HAZARDOUS             |
| Transport document description (IMDG) | : UN 2802 COPPER CHLORIDE, 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IATA) | : UN 2802 COPPER CHLORIDE, 8, III, ENVIRONMENTALLY HAZARDOUS                  |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 8 |
| Danger labels (ADR)              | : 8 |

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### IMDG

Transport hazard class(es) (IMDG) : 8  
Danger labels (IMDG) : 8



### IATA

Transport hazard class(es) (IATA) : 8  
Hazard labels (IATA) : 8



### ADN

Transport hazard class(es) (ADN) : Not regulated

### RID

Transport hazard class(es) (RID) : Not regulated

#### 14.4. Packing group

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : Not regulated  
Packing group (RID) : Not regulated

#### 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information : No supplementary information available

#### 14.6. Special precautions for user

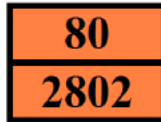
##### - Overland transport

Classification code (ADR) : C2  
Limited quantities (ADR) : 5kg  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P002, IBC08, LP02, R001  
Special packing provisions (ADR) : B3  
Mixed packing provisions (ADR) : MP10  
Portable tank and bulk container instructions (ADR) : T1

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|   |                 |
|---|-----------------|
| Portable tank and bulk container special provisions (ADR) | : TP33          |
| Tank code (ADR)   | : SGAV          |
| Vehicle for tank carriage                                 | : AT            |
| Transport category (ADR)                                  | : 3             |
| Special provisions for carriage - Bulk (ADR)              | : VC1, VC2, AP7 |
| Hazard identification number (Kemler No.)                 | : 80            |
| Orange plates   | :               |



|                               |      |
|-------------------------------|------|
| Tunnel restriction code (ADR) | : E  |
| EAC code                      | : 2X |

### - Transport by sea

|                                 |              |
|---------------------------------|--------------|
| Limited quantities (IMDG)       | : 500 g      |
| Excepted quantities (IMDG)      | : E1         |
| Packing instructions (IMDG)     | : P002, LP02 |
| IBC packing instructions (IMDG) | : IBC08      |
| IBC special provisions (IMDG)   | : B3         |
| Tank instructions (IMDG)        | : T1         |
| Tank special provisions (IMDG)  | : TP33       |
| EmS-No. (Fire)                  | : F-A        |
| EmS-No. (Spillage)              | : S-B        |
| Stowage category (IMDG)         | : A          |
| MFAG-No                         | : 154        |

### - Air transport

|  |         |
|--|---------|
| PCA Excepted quantities (IATA)               | : E1    |
| PCA Limited quantities (IATA)                | : Y845  |
| PCA limited quantity max net quantity (IATA) | : 5kg   |
| PCA packing instructions (IATA)              | : 860   |
| PCA max net quantity (IATA)                  | : 25kg  |
| CAO packing instructions (IATA)              | : 864   |
| CAO max net quantity (IATA)                  | : 100kg |
| ERG code (IATA)                              | : 8L    |

### - Inland waterway transport

Not regulated

### - Rail transport

Not regulated

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

CUPROUS CHLORIDE is not on the REACH Candidate List

CUPROUS CHLORIDE is not on the REACH Annex XIV List



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### 15.1.2. National regulations

#### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (KBwS-Beschluss; WGK No 358)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4   |
| Aquatic Chronic 1   | Hazardous to the aquatic environment — Chronic Hazard, Category 1                               |
| H302                | Harmful if swallowed  |
| H410                | Very toxic to aquatic life with long lasting effects  |
| R22                 | Harmful if swallowed  |
| R50/53              | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| N                   | Dangerous for the environment   |
| Xn                  | Harmful   |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*