

# **SAFETY DATA SHEET**

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

## 1.1 Product identifiers

Product name Cupric Chloride 0.6 M Solution

CAS number See Section 3

Synonyms N/A

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

Identified uses Laboratory chemicals.

# 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

# 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

#### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Oral Toxicity

Acute Dermal Toxicity

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Category 1

Category 1

# 2.2 GHS Label elements, including precautionary statements

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Pictogram





Signal Word Danger

Hazard statements Causes skin irritation.

Causes serious eye damage.

Harmful if swallowed or in contact with skin.

Precautionary statements

Prevention: Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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 or doctor/physician.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Disposal: Dispose of contents/container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Very toxic to aquatic life with long lasting effects.

# **SECTION 3: Composition/information on ingredients**

# 3.1 Components

| Chemical name                  | Common name and synonyms  | synonyms CAS number |        |
|--------------------------------|---------------------------|---------------------|--------|
| Copper (II) chloride dihydrate | Cupric chloride dihydrate | 10125-13-0          | 10-12% |
| Water                          | Aqua; H2O                 | 7732-18-5           | 88-90% |

# **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### General advice

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If inhaled Remove to fresh air. If not breathing, give artificial respiration. Get medical

attention if symptoms occur.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. If skin

irritation persists, call a physician.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed Clean mouth with water and drink afterwards plenty of water. Get medical

attention if symptoms occur.

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

Causes severe eye damage. Ingestion causes severe swelling, severe damage to the delicate tissue, and danger of perforation.

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

If symptoms persist, call a physician. Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media Substance is nonflammable; use agent most

appropriate to extinguish surrounding fire.

**Unsuitable extinguishing media**No information available.

# 5.2 Specific hazards arising from the substance or mixture

Corrosive material. Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors. Do not allow run-off from fire-fighting to enter drains or water courses. Hazardous Combustion Products: Copper oxides. Hydrogen chloride gas.

# 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

Flash Point No information available.

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### **Autoignition Temperature**

No information available.

## **Explosion limits**

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 3      | 3 0          |             | N/A              |

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation.

# 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.

# 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

#### **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

## Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place. Store contents under argon. Corrosives area. Do not store in metal containers. Store under an inert atmosphere. Protect from moisture.

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# Incompatibilities

Strong oxidizing agents. Metals.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

| Component                 | Type | Value   |
|---------------------------|------|---------|
| Cupric chloride dihydrate | TWA  | 1 mg/m3 |

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

| Component                 | Type | Value     |
|---------------------------|------|-----------|
| Cupric chloride dihydrate | IDLH | 100 mg/m3 |
|                           | TWA  | 1 mg/m3   |

# **Biological occupational exposure limits**

No information available.

# 8.2 Exposure controls

# Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

# Personal protective equipment

#### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

## **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

# **Respiratory protection**

No protective equipment is needed under normal use conditions.

# Control of environmental exposure

No information available.

# **SECTION 9: Physical and chemical properties**

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# 9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Blue-green
Odor Odorless

Odor Threshold

pH

No information available

No information available

Melting Point/Range

No information available

Boiling Point/Range

Evaporation Rate

No information available

No information available

Flammability (solid) Not applicable
Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure
Vapor Density
Density
No information available
No information available
No information available
No information available

Partition coefficient; No data available

n-octanol/water

Autoignition Temp

Decomposition Temp

Viscosity

No information available

No information available

No information available

Molecular Formula Cl2Cu - 2H2O Molecular Weight 170.48 g/mol

VOC Content(%) No information available

Oxidizing properties Not oxidizing

# 9.2 Other safety information

No information available.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No information available.

# 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Incompatible products. Excess heat.

# 10.5 Incompatible materials

Strong oxidizing agents. Metals.

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# 10.6 Hazardous decomposition products

Copper oxides. Hydrogen chloride gas.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Product Information, Component Information**

**Acute toxicity** 

| Component LD50 Oral |                 | LD50 Dermal      | LC50 Inhalation |  |
|---------------------|-----------------|------------------|-----------------|--|
| Cupric chloride     | 584 mg/kg (Rat) | 1224 mg/kg (Rat) | -               |  |

#### Skin corrosion/irritation

Irritating to skin.

# Serious eye damage/eye irritation

Causes eye burns.

# Respiratory or skin sensitization

Irritating to respiratory system.

# Germ cell mutagenicity

No information available.

Carcinogenicity

| Component                 | CAS        | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|---------------------------|------------|------------|------------|------------|------------|------------|
| Cupric chloride dihydrate | 10125-13-0 | Not listed |
| Water                     | 7732-18-5  | Not listed |

#### Specific target organ toxicity - single exposure

None known.

# Specific target organ toxicity - repeated exposure

None known.

# Reproductive toxicity

No information available.

#### **Chronic effects**

Ingestion causes severe swelling, severe damage to the delicate tissue, and danger of perforation.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated.

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# **SECTION 12: Ecological information**

# 12.1 Toxicity

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Do not allow material to contaminate ground water system.

| Product         |      | Species          | Test Results           |
|-----------------|------|------------------|------------------------|
| Cupric chloride | EC50 | Freshwater Algae | 0.12 - 0.2 mg/L/96h    |
|                 | LC50 | Freshwater Fish  | 0.120 - 0.130 mg/L/96h |
|                 | LC50 | Freshwater Fish  | 0.9 mg/L/96h           |
|                 | LC50 | Freshwater Fish  | 0.08 mg/L/96h          |
|                 | EC50 | Water Flea       | 0.04 mg/L/48h          |

# 12.2 Persistence and degradability

May persist based on information available.

# 12.3 Bio accumulative potential

No information available.

# 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

#### 12.5 Results of PBT and vPvB assessment

No information available.

# 12.6 Endocrine disrupting properties

No information available.

# 12.7 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

DOT (US)

UN-No UN2802

Proper Shipping Name COPPER CHLORIDE DIHYDRATE SOLUTION

Hazard Class 8

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Packing Group III

**IMDG** 

UN-No UN2802

Proper Shipping Name COPPER CHLORIDE DIHYDRATE SOLUTION

Hazard Class 8
Packing Group III

IATA

UN-No UN2802

Proper Shipping Name COPPER CHLORIDE DIHYDRATE SOLUTION

Hazard Class 8
Packing Group III

# **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Listed, Cupric chloride (CAS #7447-39-4), RQ: 10 lb.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See Section 2 for more information.

SARA 313 (TRI reporting)

Listed, Cupric chloride (CAS #7447-39-4).

Listed, Cupric chloride dihydrate (CAS #10125-13-0).

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

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Not regulated.

## Clean Water Act (CWA)

Listed, Cupric chloride (CAS #7447-39-4), RQ: 10 lb. Listed, Cupric chloride dihydrate (CAS #10125-13-0).

# **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

## **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Listed, Cupric chloride (CAS #7447-39-4).

## **US. New Jersey Worker and Community Right-to-Know Act**

Listed, Cupric chloride (CAS #7447-39-4). Listed, Cupric chloride dihydrate (CAS #10125-13-0).

#### US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Cupric chloride (CAS #7447-39-4). Listed, Cupric chloride dihydrate (CAS #10125-13-0).

# **California Proposition 65**

Not listed.

#### **SECTION 16: Other information**

Issue date: 07/19/2024 Revision 1: 03/03/2025

#### **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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