

# SAFETY DATA SHEET

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

#### **1.1** Product identifiers

- Product name Cuprous Chloride Anhydrous
- CAS number 7758-89-6
- Synonyms Copper(I) chloride
- 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	Category 4
Acute dermal toxicity	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

# 2.2 GHS Label elements, including precautionary statements

#### Pictogram



Signal Word	Danger
-------------	--------

#### Hazard statements

Causes skin irritation Causes serious eye damage

#### **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
Skin	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
Eyes	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
Ingestion	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	CAS number	Concentration
Cuprous chloride	Copper(I) chloride	7758-89-6	>95%

# **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### **General advice**

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.
- 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician: Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1 **Extinguishing media**

Suitable extinguishing media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable extinguishing media	No information available

# 5.2 Specific hazards arising from the substance or mixture

Non-combustible. Do not allow run-off from fire-fighting to enter drains or water courses.

#### 5.3 Special protective equipment and precautions for firefighters

Hazardous Combustion Products: Hydrogen Chloride Gas. 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

Autoignition Temperature No information available

**Explosion limits** 

No information available Upper Lower No information available Sensitivity to Mechanical Impact Sensitivity to Static Discharge

No information available No information available

NFPA

Health	Flammability	Instability	Physical hazards
2	0	1	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. Avoid dust formation.

#### 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.

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

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed 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

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Handle and store contents under nitrogen. Protect from moisture.

#### **Hygiene measures**

No information available

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

#### Storage conditions

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. To maintain product quality: Keep under nitrogen.

#### Incompatibilities

Metals. Strong oxidizing agents.

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

#### 8.1 Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Component	Туре	Value
Cuprous chloride	TWA	1 mg/m3

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

Component	Туре	Value
Cuprous Chloride	IDLH	100 mg/m3

TWA 1 mg/m3
-------------

### 8.2 Exposure controls

#### Appropriate engineering controls

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.

#### **Respiratory protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Control of environmental exposure

No information available

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

### 9.1 Information on basic physical and chemical properties

Physical State Appearance Odor	Powder Solid Grey Odorless
Odor Threshold	No information available
рН	5 @ 20°C 50 g/l
Melting Point/Range	430 °C / 806 °F
Boiling Point/Range	1490 °C / 2714 °F @ 760 mmH
Evaporation Rate	Not applicable
Flammability (solid)	No information available
Flammability or explosive limit	No information available
Vapor Pressure	No information available
Vapor Density	Not applicable
Density	4.14
Solubility	Slightly soluble
Partition coefficient; n-octanol/water	No information available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	No information available

Molecular Formula Molecular Weight VOC Content(%) Oxidizing properties CI Cu 99 No information available No information available

#### 9.2 Other safety information

No information available

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

None known, based on information available

- **10.2 Chemical stability** Moisture sensitive
- **10.3 Possibility of hazardous reactions** None under normal processing

# 10.4 Conditions to avoid

incompatible products. Exposure to moist air or water.

# **10.5** Incompatible materials

Metals, strong oxidizing agents.

**10.6 Hazardous decomposition products** 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
Cuprous chloride	336 mg/kg (Rat)	1224 mg/kg (female Rat)	Not listed

#### Skin corrosion/irritation

Irritating to skin. Risk of serious damage to eyes.

#### Serious eye damage/eye irritation

Irritating to skin. Risk of serious damage to eyes

#### Respiratory or skin sensitization

No information available

#### Germ cell mutagenicity

No information available

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Cuprous chloride	7758-89-6	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

No information available

# 11.2 Additional Information

No information available

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product		Species	Test Results	i
Copper(I) chloride	LC50	Freshwater Fish	0.559 mg/L	96h

#### 12.2 Persistence and degradability Insoluble in water

# 12.3 Bio accumulative potential

No information available

#### 12.4 Mobility in soil

Is not likely mobile in the environment due to its low 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

#### 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**

<b>DOT (US)</b> UN-no. Proper Shipping Name Hazard Class Packing Group	UN2802 COPPER CHLORIDE 8 III
<b>IMDG</b> UN-no. Proper Shipping Name Hazard Class Packing Group	UN2802 COPPER CHLORIDE 8 III
<b>IATA</b> UN-no. Proper Shipping Name Hazard Class Packing Group	UN2802 COPPER CHLORIDE 8 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) Not applicable

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)

Not regulated

#### 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) Not regulated.

#### Safe Drinking Water Act

Not regulated

#### US state reg

US. Massachusetts RTK - Substance List Not listed

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

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

# California Proposition 65

Not listed

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

Issue date: 8/7/2024 Revision 0

#### **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.