

# SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name Copper Chloride

CAS number 7447-39-4

Synonyms Cupric 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

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, 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.

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
Copper chloride	Cupric chloride	7447-39-4	>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. Do not use mouth-

to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the air of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

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

medical attention is required.

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

minutes. In the case of contact with eyes, rinse immediately with plenty of water

and seek medical advice.

**If swallowed** Do NOT induce vomiting. Call a physician or poison control center immediately.

# 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

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

Non-combustible, substance itself does not burn but may decompose upon heating to product corrosive and/or toxic fumes. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire-fighting to enter drains or water courses.

## 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equilvalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.4 Further information

Flash Point No information available

Autoignition Temperature No information available

**Explosion limits** 

UpperNo data availableLowerNo data available

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available

**NFPA** 

	Health	Flammability	Instability	Physical hazards
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3	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. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

### 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. Avoid dust formation.

#### 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. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

#### 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. Store under an inert atmosphere. Protect from moisture.

#### **Incompatibilities**

Strong oxidizing agents.

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

## 8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

No information available.

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

Component	Type	Value
Copper Chloride	TLV	1 mg/m3

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

Component	Type	Value
Copper Chloride	IDLH	100 mg/m3
Copper Chilonde	TWA	1 mg/m3

## **Biological occupational exposure limits**

No information available

## 8.2 Exposure controls

## Appropriate engineering controls

Ensure adequate ventilation, espicially 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 describe by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin and 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**

# 9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance Blue-green
Odor Odorless

Odor Threshold

PH

3 50 g/l aq.sol (20 °C)

Melting Point/Range 498 °C / 928.4 °F

Boiling Point/Range 993 °C / 1819.4 °F @ 760 mmHg

Evaporation Rate No information available

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Flammability (solid) No information available

Flammability or explosive limit

Upper No data available Lower No data available

Vapor PressureNo information availableVapor DensityNo information availableDensityNo information available

Solubility 620 g/L (20 °C)
Partition coefficient; n-octanol/water No data available

Autoignition Temp No information available

Decomposition Temp >300 °C

Viscosity No information available

Molecular Formula Cl2Cu Molecular Weight 134.45

VOC Content(%)

Oxidizing properties

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

Hygroscopic

## 10.3 Possibility of hazardous reactions

None under normal processing

#### 10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air and water.

## 10.5 Incompatible materials

Strong oxidzing 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
Copper chloride	584 mg/kg (rat)	1224 mg/kg (rat)	-

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#### 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
Copper chloride	7447-39-4	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
	EC50	Freshwater Algae	0.12 - 0.2 mg/L 96 h
Copper chloride	LC50	Carp	0.120 - 1.130 mg/L 96 h
	LC50	Bluegill sunfish	0.9 mg/L 96 h
	LC50	Rainbow trout	0.8 mg/L 96 h
	EC50	Water flea	0.04 mg/L 48 h

# 12.2 Persistence and degradability

Soluble in water, persistence is unlikely based on information available

## 12.3 Bio accumulative potential

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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

Hazard Class 8
Packing Group III

**IMDG** 

**UN No.** UN2802

Proper Shipping Name COPPER CHLORIDE

Hazard Class 8
Packing Group III

IATA

**UN No.** UN2802

Proper Shipping Name COPPER CHLORIDE

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)

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#### Listed (COPPER CHLORIDE (7447-39-4))

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

Listed (COPPER CHLORIDE (7447-39-4)) 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 (COPPER CHLORIDE (7447-39-4)) Weight: >95%, Threshold Values %: 1.0

## 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)

Not regulated.

#### **Safe Drinking Water Act**

Listed (COPPER CHLORIDE (7447-39-4))

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

Not listed

#### **US** state regulations

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

Listed (COPPER CHLORIDE (7447-39-4))

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

Listed (COPPER CHLORIDE (7447-39-4))

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

Listed (COPPER CHLORIDE (7447-39-4))

# **California Proposition 65**

Not listed

## **SECTION 16: Other information**

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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.

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