

# SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name Cupric Sulfate

CAS number 7758-98-7

Synonyms Cupric sulfate anhydrous; Cupric sulfate; Copper monosulfate

# 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
Skin Corrosion/Irritation Category 2
Serious eye damage/eye irritation Category 2

# 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Warning

Hazard statements

Harmful if swallowed Causes skin irritation

Causes serious eye irritation

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

If skin irritation occurs: Get medical advice/attention Take off contaminatated 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. If eye irritation persists: Get medical

advice/attention.

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
Cupric sulfate	Copper(II) Sulfate	7758-98-7	>98%

#### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### **General advice**

**If inhaled** Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or

inhaled the substance; give artificial respiration with the aid of a pocket mask

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

attention if symptoms occur.

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

minutes. Get medical attention.

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

No information available

# 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 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 produce corrosive and/or toxic fumes. 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 equivalent) and full protective gear.

#### 5.4 Further information

Flash Point No information available

Autoignition Temperature No information available

**Explosion limits** 

UpperLowerNo information available

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

**NFPA** 

Health Flammability		Instability	Physical hazards
2	2 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. Avoid dust formation. Avoid contact with skin, eyes or clothing.

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# 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. 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. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

#### **Hygiene measures**

No information available

# 7.2 Conditions for safe storage, including any incompatibilities

## Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere.

#### Incompatibilities

Strong bases. Metals. Alkali metals. Finely powdered metals.

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

# 8.1 Occupational exposure limits

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

Component	Туре	Value
Cupric sulfate	TWA	1 mg/m3

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

Component	Type	Value
Cupric sulfate	IDLH	100 mg/m3
Cupile suitate	TWA	1 mg/m3

## 8.2 Exposure controls

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## 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**

No information available

#### 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 Powder Solid

Appearance Grey
Odor Odorless

Odor Threshold No information available

pH 3.5-4.5

Melting Point/Range 200 °C / 392 °F

Boiling Point/Range No information available Evaporation Rate No information available

Flammability (solid) Not applicable

Flammability or explosive limit

Vapor Pressure

No information available

No information available

Vapor Density Not applicable

Density 3.6

Solubility 203 g/L (20 degrees Celsius)

Partition coefficient; n-octanol/water No data available

Autoignition Temp

No information available

Decomposition Temp

No information available

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Viscosity Not applicable

Molecular Formula Cu O4 S Molecular Weight 159.6

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

Stable under normal conditions. Hygroscopic

# 10.3 Possibility of hazardous reactions

None under normal processing

#### 10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat. Exposure to moisture.

## 10.5 Incompatible materials

Strong bases, Metals, Alkali metals, Finely powdered metals

#### 10.6 Hazardous decomposition products

Toxic fumes, Sulfur oxides, Copper oxides

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Product Information, Component Information**

#### **Acute toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cupric sulfate	481 mg/kg (Rat)	1000 mg/kg (Rabbit)	Not listed

#### Skin corrosion/irritation

Irritating to eyes and skin

# Serious eye damage/eye irritation

Irritating to eyes and skin

#### Respiratory or skin sensitization

No information available

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## Germ cell mutagenicity

No information available

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Cupric sulfate	7758-98-7	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

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

Product		Species	Test Results
Cupric sulfate	LC50	Freshwater Fish	0.1 mg/L, 96h
Cupric suitate	EC50	Water Flea	0.024 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

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#### 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. UN3077

Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.

Technical Name Cupric sulfate

Hazard Class 9
Packing Group III

**IMDG** 

UN-no. UN3077

Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.

Technical Name Cupric sulfate

Hazard Class 9
Packing Group III

IATA

UN-no. UN3077

Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.

Technical Name Cupric sulfate

Hazard Class 9
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)** 

Cupric Sulfate Hazardous substances RQ: 10 lb

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

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# 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)

Cupric Sulfate Threshold Value: 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** 

Cupric Sulfate Reportable Quantity: 10 lb

**US state regulations** 

**US. Massachusetts RTK - Substance List** 

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 1: 07/03/2025

#### **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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