

## 1. IDENTIFICATION

**Product Name** Copper Sulfate  
**Recommended use** Animal Feed, Personal Hygiene  
**Supplier** Valudor Products, LLC.  
 179 Calle Magdalena, Suite 100  
 Encinitas, CA 92024  
 (760) 635-8500  
**Emergency Telephone** (800) 535-5053 (Infotrac)

## 2. HAZARD IDENTIFICATION

### Classification

This product considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Acute Toxicity - Oral	Category 4
Skin Irritation	Category 2
Eye Irritation	Category 2

### Label Elements

#### GHS Pictograms



#### Signal Word Hazard Statements

**Warning**  
 Harmful if swallowed  
 Causes skin irritation  
 Causes serious eye irritation

#### Precautionary Statements -Prevention

Wash thoroughly after handling  
 Wear eye protection/face protection/protective gloves  
 Do not eat, drink or smoke when using this product.  
 Take off contaminated clothing and wash it before reuse  
 If on skin wash with plenty of water.

#### -Response Skin

If skin irritation occurs: Get medical advice/attention.  
 If in eyes: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.

#### Eye

If eye irritation persists: get medical advice/attention.  
 If swallowed: call a poison center/doctor if you feel unwell.  
 Rinse mouth.

#### Ingestion

#### -Disposal

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

#### Hazards not other classified

None

---

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

---

**Substance**

Chemical name	CAS-No	Weight-%
Copper Sulfate pentahydrate	7758-99-8	>99

---

### 4. FIRST-AID MEASURES

---

**First Aid Measures**

<b>Eye Contact</b>	Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Call a doctor/physician if irritation persists.
<b>Skin Contact</b>	Wash off immediately with plenty of water. Remove all contaminated clothes/ shoes and was before reuse. If skin irritation persists, call a doctor/physician.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**Most important symptoms/effects, acute and delayed**

<b>Symptoms</b>	Causes skin irritation. Causes serious eye irritation.
-----------------	--

---

### 5. FIRE-FIGHTING MEASURES

---

**Suitable Extinguishing Media** Water spray or fog, foam, carbon dioxide (CO<sub>2</sub>), Dry chemical powder.

Unsuitable Extinguishing Media No information available

**Specific Hazards arising from the chemical**

Hazardous combustion products Thermal decomposition can lead to the release of irritation or toxic gases and vapors; including and not limited to: Metal oxides.

**Protective equipment and precautions for fire-fighters**

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

---

### 6. ACCIDENTAL RELEASE MEASURES

---

**Personal precautions, protective equipment, and emergency procedures**

**Personal precautions** Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Ensure adequate ventilation.

**Methods and materials for containment and cleanup**

**Methods for clean-up** Sweep or vacuum up and place in an appropriate closed container. Keep unauthorized personnel away. Avoid generating dust. Prevent runoff into drains.

**Environmental Precautions** Prevent entry into waterways or sewers

---

**7. HANDLING AND STORAGE**

---

**Precautions for safe handling**

Ensure adequate ventilation. Avoid contact with eye, skin and clothing. Do not breathe dust. Use personal protection recommended in section 8. Wash thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash before breaks and at the end of the workday. Clean equipment and work area regularly.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, well-ventilated place. Keep containers tightly closed and labeled when not in use. Keep away from incompatible materials (see section 10).

---

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

---

**Exposure Guidelines**

Component	ACGIH	OSHA	NIOSH
Copper Sulfate	TWA: 1 mg/m3	-	REL: 1mg/m3

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal protective equipment.

**Personal Protective Equipment**

**Eye/face protection** Tightly fitted safety goggles.

**Skin protection** Wear long sleeve protective clothing. Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposure to skin. Wear protective gloves.

**Respiratory protection** Not required under normal circumstances. If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

---

**9. PHYSICAL and CHEMICAL PROPERTIES**

---

**Appearance** Blue particles

**Physical state** Solid

**Odor** No information available

**Odor threshold** No information available

**pH** No information available

<b>Melting point / freezing point</b>	No information available
<b>Boiling point / Boiling range</b>	Not applicable
<b>Flash point</b>	No information available
<b>Evaporation rate</b>	Not applicable
<b>Flammability</b>	No information available
<b>Flammability or explosive limits</b>	
Upper	No information available
Lower	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific Gravity</b>	No information available
<b>Solubility in water</b>	Soluble in water
<b>Partition coefficient</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	No information available

---

## 10. STABILITY AND REACTIVITY

---

<b>Reactivity</b>	None known under normal conditions.
<b>Chemical stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Moisture
<b>Incompatible materials</b>	No information available
<b>Hazardous decomposition products</b>	Hazardous combustion can lead to the release of irritating gases and vapors.

---

## 11. TOXICOLOGICAL INFORMATION

---

### Information on likely routes of exposure

<b>Skin contact</b>	Causes skin irritation
<b>Eye contact</b>	Causes eye irritation
<b>Inhalation</b>	May cause irritation of respiratory tract
<b>Ingestion</b>	Harmful if swallowed

### Symptoms related to the physical chemical and toxicological characteristics

No information available

### Delayed and immediate effects and also chronic effects form short and long-term exposure

<b>Skin damage/irritation</b>	Causes skin irritation
<b>Eye damage/irritation</b>	Causes serious eye irritation
<b>Sensitization</b>	Not classified
<b>Mutagenic effects</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive toxicity</b>	Not classified
<b>STOT – single exposure</b>	Not classified

**STOT – repeated exposure** Not classified  
**Aspiration hazard** Not classified

**Acute Toxicity****Component information**

Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Copper Sulfate pentahydrate	7758-99-8	481 mg/kg	> 2,000 mg/kg	-

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects. Should not be released to environment.

Component	Freshwater Fish	Algae	Water Flea
Copper Sulfate pentahydrate 7758-99-8	-	-	EC50: 0.024 mg/l/48h (Daphnia magna)

**Persistence and degradability** No information available

**Bioaccumulative potential** No information available

**Mobility in soil** No information available

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** Processing, use, or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**DOT** Regulated  
**UN-No** 3077  
**Proper Shipping Name** Environmentally hazardous substances, solid, n.o.s. (Copper sulphate pentahydrate)  
**Hazard Class** 9  
**Packing Group** III  
**IATA** Regulated  
**UN-No** 3077  
**Proper Shipping Name** Environmentally hazardous substances, solid, n.o.s. (Copper sulphate pentahydrate)

<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>IMDG</b>	Regulated
<b>UN-No</b>	3077
<b>Proper Shipping Name</b>	Environmentally hazardous substances, solid, n.o.s. (Copper sulphate pentahydrate)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III

---

## 15. REGULATORY INFORMATION

---

### International Inventories

<b>TSCA</b>	Complies
<b>DSL</b>	Complies

### US Federal Regulations

#### **TSCA section 12(b) Export Notification**

Not regulated

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following compounds which are subject to the reporting requirements of the Act and 40 CFR, Part 372: Copper Sulfate Pentahydrate.

#### **SARA 311/312 Hazard Categorization**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Pressure	No
Reactivity	No

#### **CERCLA/SARA 302 & 304**

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

Not applicable

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42): Copper Sulfate

### US State Regulations

#### **California Proposition 65**

This product does not contain any proposition 65 chemicals

---

## 16. OTHER INFORMATION

---

**NFPA Ratings**

Health: 2

Flammability: 0

Reactivity: 0

**Product name:** Copper Sulfate

**Date of Issue:** 9/19/2019

Creation Date: 9/19/2019

Revision Date:

Revision Number: 1

Revision Information: Creation

**Disclaimer**

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text