

# Copper Sulfate Pentahydrate

## SAFETY DATA SHEET

# SDS

Jiangsu Kolod Food Ingredients Co., Ltd.


according to GHS(sixth revised edition)

### Section 1 - Product and Company Identification

<b>Product name</b>	Copper Sulfate Pentahydrate
<b>Applicant name</b>	Jiangsu Kolod Food Ingredients Co., Ltd.
<b>Application address</b>	GUANYUN DEVELOPING ZONE, LIANYUNGANG CITY, JIANGSU PROVINCE, CHINA
<b>Applicant post code</b>	222000
<b>Applicant fax</b>	+86-518-85110537
<b>Applicant emergency number</b>	+86-518-85110538
<b>Manufacturer name</b>	Jiangsu Kolod Food Ingredients Co., Ltd.
<b>Manufacturer address</b>	GUANYUN DEVELOPING ZONE, LIANYUNGANG CITY, JIANGSU PROVINCE, CHINA
<b>Manufacturer post code</b>	222000
<b>Manufacturer fax</b>	+86-518-85110537
<b>Manufacturer emergency number</b>	+86-518-85110538
<b>SDS number</b>	DG1607568E
<b>Effective date</b>	Jun 01, 2016

### Section 2 –Hazards Identification

Hazard class and label elements of the substance according to GHS(the sixth revised edition):

<b>GHS hazard class</b>		
<b>Health hazard(s)</b>	Acute toxicity, oral	category4
	Skin corrosion/irritation	category2
	Serious eye damage/eye irritation	category2A
<b>Environmental hazard(s)</b>	Hazardous to the aquatic environment, acute hazard	category1
	Hazardous to the aquatic environment, long-term hazard	category1
<b>Pictogram</b>		
<b>Signal</b>	Warning	
<b>Hazard statement(s)</b>	H302 Harmful if swallowed H315 Causes skin irritation	

H319 Causes serious eye irritation  
 H400 Very toxic to aquatic life  
 H410 Very toxic to aquatic life with long lasting effects

**Precautionary statements****Prevention**

P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor/if you feel unwell.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P330 Rinse mouth.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P391 Collect spillage.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 3 – Composition/Information on Ingredients

Component	Concentration(%)	CAS No.	EC No.
Copper Sulfate Pentahydrate	≥98	7758-99-8	231-847-6

### Section 4 – First Aid Measures

<b>After skin contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>After eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>After ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>After inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

### Section 5 – Fire Fighting Measures

<b>Hazardous products of combustion</b>	Sulfur oxide, copper oxide.
<b>Extinguishing method</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special protective equipment</b>	Wear self contained breathing apparatus for fire fighting if necessary.

### Section 6 – Accidental Release Measure

<b>Personal protective measures</b>	Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
<b>Environmental protective measures</b>	Prevent the spills inflow to a sewer and then place in suitable container.

**Methods for taking in and cleaning up** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7 – Handling and Storage

**Handling** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Storage** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## Section 8 – Exposure Controls/Personal Protection

**Engineering Controls** Safety shower and eye bath. Mechanical exhaust required.

**Respiratory protection** Use a full-face supplied air respirator.

**Eye protection** Wear chemical goggles.

**Hand Protection** Wear impervious chemical resistant gloves.

**Body protection** Protective work clothing.

## Section 9 – Physical and Chemical Properties

**Appearance and properties:** Blue crystal powder

**Odor threshold:** No data available

**Melting point/freezing point(°C):** No data available

**Flash point(°C)(closed cup):** No data available

**Flammability:** No data available

**Lower explosive limit%(V/V):** No data available

**Vapor density(g/mL):** No data available

**Solubility:** No data available

**Auto-ignition temperature(°C):** No data available

**Kinematic viscosity (mm<sup>2</sup>/s):** No data available

**Odor:** No data available

**pH value:** No data available

**Initial boiling point and boiling range(°C):** No data available

**Evaporation Rate:** No data available

**Upper explosive limit%(V/V):** No data available

**Vapor pressure(MPa):** No data available

**Relative density(g/cm<sup>3</sup>):** 2.286 (15.6°C)

**Octanol / water partition coefficient:** No data available

**Decomposition temperature(°C):** >560

## Section 10 – Stability and Reactivity

**Reactive** No data available.

**Chemical stability** Stable under the condition recommended.

**Possibility of hazardous reactions** No data available

**Avoid conditions** Moisture.

**Incompatible materials** Metal powder.

**Hazardous decomposition products** No data available.

## Section 11 – Toxicological Information

**Acute toxicity:** Copper Sulfate Pentahydrate: LD<sub>50</sub>(rat,Oral) 960mg/kg;LD<sub>50</sub>(rabbit,Dermal)>2000 mg/kg

**Skin corrosion/irritation:** Irritating to skin.

**Serious eye damage/eye irritation:** Causes severe eye irritation.

**Respiratory or skin sensitization:** No data available.

**Germ cell mutagenicity:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Specific target organ toxicity – single exposure:** No data available.

**Specific target organ toxicity – repeated exposure:** No data available.

**Aspiration hazard:** No data available.

## Section 12 – Ecological Information

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** Very toxic to aquatic life with long lasting effects.

## Section 13 – Disposal Considerations

**Property of waste:** Hazardous Waste.

**Methods of disposal:** Dispose of in a manner consistent with federal, state, and local regulations.

**Precautions of disposal:** Professional processing together.

## Section 14 - Transport Information

**UN number:** 3077

**UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.

**Transportation primary hazard class:** 9

**Transportation secondary hazard class:** —

**Packing group:** III

## Section 15 - Regulatory Information

Component	CHINA	TSCA	ENCS	EINECS
Copper Sulfate Pentahydrate	√	√	√	√

**Note 1:**

**CHINA - China Inventory of Existing Chemical Substances (IECSC)**

**TSCA - United States Inventory of Toxic Substances Control Act Chemical Substances (TSCA)**

**ENCS - Japan Existing and New Chemical Substances (ENCS)**

**EINECS - European Inventory of Existing Commercial Chemical Substances (EINECS)**

**Note 2:**

"√" Indicates that the substance included in the regulations

"-" That no data or included in the regulations

## Section 16 - Additional Information

**Prepared by:** Changzhou Testing Center of Entry-Exit Industrial and Consumable Products

**Completion Date:** Jun 01, 2016

**Modification statement:** Original. Please update before the implementation of the GHS Seventh revised edition.

**Other information:** This Safety Data Sheet (SDS) was prepared according to UN GHS (the sixth revised edition) and the information included is based on the present state of our knowledge. However, the information is provided without any warranty, express or implied, regarding its correctness and is only for users reference. Users should

make their independent judgement of suitability of these information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.