

# 1. Identification of the substance/preparation and of the company/undertaking

Identification of the product Copper(II) sulfate pentahydrate Manufacturer/supplier identification

Company: Guangdong Guanghua Sci-Tech Co.,Ltd

Address: No.295 Daxue Road, Shantou

PostCode:515000

E-mail: export@jinhuada.com

Emergency telephone No.: +86-754-82515813.

Fax No.: +86-754-88221999

#### 2. Hazards identification

#### Classification of the substance or mixture

# Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 3) Acute toxicity, skin (Category 5) Eye irritation (Category 2A) Skin irritation (Category 2)

Acute aquatic toxicity (Category 1)

# Label elements

Pictogram





### Signal word Danger

#### Hazard statement(s)

H301 Toxic if swallowed.

H313 May be harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

### Precautionary statement(s)

P264 Wash thoroughly after handling. P273 Avoid release to the environment.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements

none

# 3. Composition/information on ingredients

Synonyms

Copper(II) sulfate pentahydrate



CAS-No.: 7758-99-8 *M*: 249.69 g/mol

Molecular formula: CuSO<sub>4</sub> • 5H<sub>2</sub>O

#### 4. First aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. Fire-fighting measures

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# **Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. Accidental release measures

# **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

# **Environmental precautions**

Do not let product enter drains.

# Methods and materials for containment and cleaning up

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

#### 7. Handling and storage

#### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

# Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

# 8. Exposure controls/personal protection

#### **Appropriate engineering controls**

General industrial hygiene practice.

#### Personal protective equipment

### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard



EN 374 derived from it.

## **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Do not let product enter drains.

## 9. Physical and chemical properties

Form: crystalline Colour: blue

Odour: not available

**pH value:** 3,7 - 4,5 at 50 g/l at 25 °C

Melting point: 110°C.

Boiling point: not available

Ignition temperature: not available

Flash point: not available

Autoignition temperature: not available

**Explosion limits** 

lower: not availableupper: not availableDensity: not availableBulk density: not available

Solubility in

water (20 °C): not available

diluted acids (20  $^{\circ}$ C): not available Thermal decomposition: not available

# 10. Stability and reactivity

#### Chemical stability

no data available

#### Conditions to avoid

no data available

# Materials to avoid

Powdered metals, Anhydrous copper(II) sulfate, reacts violently with:, hydroxylamine, Magnesium

# **Hazardous decomposition products**

Other decomposition products - no data available

### 11. Toxicological information

#### Acute toxicity

no data available

Skin corrosion/irritation



no data available

## Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable,

possible or confirmed human carcinogen by IARC.

# Specific target organ toxicity - single exposure

no data available

# Specific target organ toxicity - repeated exposure

no data available

# **Aspiration hazard**

no data available

## 12. Ecological information

#### **Toxicity**

no data available

### Persistence and degradability

no data available

## **Bioaccumulative potential**

no data available

# Mobility in soil

no data available

#### PBT and vPvB assessment

no data available

#### Other adverse effects

no data available

### 13. Disposal considerations

## Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

#### 14. Transport information

## ADR/RID

UN-Number: 3077 Class: 9 Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper

sulphate pentahydrate)

## **IMDG**

UN-Number: 3077 Class: 9 Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper

sulphate pentahydrate) Marine pollutant: yes



**IATA** 

UN-Number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Copper sulphate pentahydrate)

# 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 16. Other information

General update.

Regional representation:

This information is given on the authorised Safety Data Sheet for your country.