# GHTECH Material Safety Data Sheet

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

*Identification of the product* Zinc sulfate heptahydrate

Manufacturer/supplier identification

Company: Guangdong Guanghua Sci-Tech Co.,Ltd

Address: No.295 Daxue Road, Shantou

PostCode:515000

E-mail: export@ghtech.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 4) Serious eye damage (Category 1) Acute aquatic toxicity (Category 1) Chronic aquatic toxicity (Category 1)

## **Label elements**

Pictogram







## Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.H314 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

## Precautionary statement(s)

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

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

Zinc sulfate heptahydrate CAS-No.: 7446-20-0 *M*: 287.58 g/mol

Molecular formula:ZnSO<sub>4</sub> 7H<sub>2</sub>O

#### 4. First aid measures

# **GHTECH** Material Safety Data Sheet

#### 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 firefighting if necessary.

#### 6. Accidental release measures

#### **Personal precautions**

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

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 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

#### **Eve/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

# GHTECH Material Safety Data Sheet

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. Discharge into the environment must be avoided.

## 9. Physical and chemical properties

Form: crystals Colour: white

Odour: not available

**pH value:** 4.0 - 6.0 at 50 g/l at 20 °C

Melting point: 100 ℃
Boiling point: not available

**Ignition temperature:** not available

Flash point: not available

Autoignition temperature: not available

**Explosion limits** 

**lower:** not available **upper:** not available **Density:** 1.97 g/cm<sup>3</sup>

Bulk density: not available

Solubility in

water (20  $^{\circ}$ C): soluble in water. 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

Strong oxidizing agents

#### Hazardous decomposition products

Other decomposition products - no data available

#### 11. Toxicological information

## **Acute toxicity**

LD50 Oral - Rat - 2150 mg/kg LD50 Intraperitoneal - Rat - 200 mg/kg

#### Skin corrosion/irritation

no data available

# Serious eye damage/eye irritation

Eyes - Rabbit



Result: Risk of serious damage to eyes.

## 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**

Toxicity to fish mortality LC50 - other fish - 1 - 10 mg/l - 96.0 h

## 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

Very toxic to aquatic life with long lasting effects.

## 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, SOLID, N.O.S. (Zinc sulfate

heptahydrate)

## **IMDG**

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

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc sulfate

heptahydrate)

Marine pollutant: yes

#### **IATA**

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



Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Zinc sulfate heptahydrate)

# 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.