

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

### *Identification of the product*

Sulfur

### *Manufacturer/supplier identification*

Company: Guangdong Guanghua Sci-Tech Co.,Ltd

Address: No.295 Daxue Road,Shantou

PostCode:515000

E-mail: [export@jinhuada.com](mailto: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]**

Flammable solids (Category 2)

Acute toxicity, Oral (Category 5)

Acute toxicity, Inhalation (Category 5)

Acute toxicity, Dermal (Category 5)

### **Label elements**

Pictogram

Signal word Warning

### Hazard statement(s)

H228 Flammable solid.

H303 May be harmful if swallowed.

H313 May be harmful in contact with skin.

H333 May be harmful if inhaled.

### Precautionary statement(s)

P210 Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

P240 Container and receiving equipment grounding / equipotential connection.

P241 Use explosion-proof electrical / ventilating / lighting equipment.

P280 Wear protective gloves / protective clothing / [TET7(i)52eq2(c)-3(a)-(g)23(l)-23(e)12(q)-22(u)23(i)-16(po)]

CAS-No.: 7704-34-9

*M*: 32.07 g/mol

Molecular formula: S

#### 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**

Take off contaminated clothing and shoes immediately. 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**

Do NOT induce vomiting. 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**

Wear respiratory protection. 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**

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

#### 7. Handling and storage

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

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition.

##### **Conditions for safe storage**

Store in cool place. 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:** powder

**Colour:** light yellow

**Odour:** not available

**pH value:** not available

**Melting point:** 113 ~ 119 °C

**Boiling point:** 444 °C

**Ignition temperature:** not available

**Flash point:** not available

**Autoignition temperature:** not available

**Explosion limits**

**Hazardous decomposition products**

Other decomposition products - no data available

**11. Toxicological information**

**Acute toxicity**

LDLO Oral - Rabbit - 175 mg/kg  
 LD50 Oral - Rat - > 2.000 mg/kg  
 LC50 Inhalation - Rat - 4 h - > 9,23 mg/l  
 LD50 Dermal - Rabbit - > 2.000 mg/kg  
 LDLO Intravenous - Rat - 8 mg/kg  
 LDLO Intravenous - Rabbit - 5 mg/kg  
 LDLO Intraperitoneal - Guinea pig - 55 mg/kg  
 LDLO Intravenous - Dog - 10 mg/kg

**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**

Inhalation - Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

no data available

**12. Ecological information**

**Toxicity**

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - > 180 mg/l - 96 h
	LC50 - other fish - 866 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - > 5.000 mg/l - 48 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**

no data available



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**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: 1350 Class: 4.1 Packing group:III

Proper shipping name: SULPHUR

**IMDG**

UN-Number: 1350 Class: 4.1 Packing group:III

Proper shipping name: SULPHUR

Marine pollutant: no

**IATA**

UN-Number: 1350 Class: 4.1 Packing group:III

Proper shipping name: Sulphur

**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.