

# **GHTECH Material Safety Data Sheet**

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

### *Identification of the product*

Potassium hexacyanoferrate(II)

### *Manufacturer/supplier identification*

Company: Guangdong Guanghua Sci-Tech Co.,Ltd

Address: No.295 Daxue Road,Shantou

PostCode:515000

E-mail: [export@ghtech.com](mailto:export@ghtech.com)

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## **2. Hazards identification**

### **Classification of the substance or mixture**

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

Acute toxicity, Oral (Category 5)

Eye irritation (Category 2B)

Acute aquatic toxicity (Category 3)

Chronic aquatic toxicity (Category 3)

### **Label elements**

Pictogram None

Signal word Warning

### Hazard statement(s)

H303 May be harmful if swallowed.

H320 Causes eyes irritation.

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statement(s)

P264 Wash hands 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.

P312 Call a POISON CENTER/doctor if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/attention.

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

### Supplemental Hazard Statements

none

## **3. Composition/information on ingredients**

### *Synonyms*

Potassium hexacyanoferrate(II)

CAS-No.: 14459-95-1

M: 422.39 g/mol

Molecular formula: K<sub>4</sub>[Fe(CN)<sub>6</sub>]•3H<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**

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

#### **In case of eye contact**

Flush eyes with water as a precaution.

#### **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 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. Do not flush with water. Keep in suitable, closed containers for disposal.

## **7. Handling and storage**

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

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.

Never allow product to get in contact with water during storage. Do not store near acids.

## **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**

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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:** crystals.

**Colour:** buff

**Odour:** not available

**pH value:** 8.0-10 at 211 g/l at 25 °C

**Melting point:** 70 °C

**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 :** 1.85 g/cm<sup>3</sup>

**Bulk density:** not available

**Solubility in**

**water (20 °C) :** Soluble in water

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

## **10. Stability and reactivity**

**Chemical stability**

Stable under recommended storage conditions.

**Conditions to avoid**

Avoid temperatures above 60°C, direct sunlight and contact with sources of heat. Contact with acids liberates very toxic gas.

**Materials to avoid**

Acids, Strong oxidizing agents

**Hazardous decomposition products**

Other decomposition products - no data available

## **11. Toxicological information**

**Acute toxicity**

LD50 Oral - Rat - 3613 mg/kg

**Skin corrosion or irritation**

Skin - Rabbit

Result: No skin irritation

**Serious eye damage or eye irritation**

Eyes - Rabbit

Result: Mild eye irritation

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## **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

## **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: - Class: - Packing group: -

Proper shipping name: Not dangerous goods

### **IMDG**

UN-Number: - Class: - Packing group: -

Proper shipping name: Not dangerous goods

Marine pollutant: no

### **IATA**

UN-Number: - Class: - Packing group: -

Proper shipping name: Not dangerous goods

## **15. Regulatory information**

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

## **16. Other information**

General update.

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*Regional representation:*

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