



# Material Safety Data Sheet

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

### *Identification of the product*

Potassium dihydrogen phosphate

### *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**

**Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.**

### **Label elements**

Not a hazardous substance or mixture.

### **Supplemental Hazard Statements**

none

## 3. Composition/information on ingredients

### *Synonyms*

Potassium dihydrogen phosphate

CAS-No.: 7778-77-0

M: 136.1 g/mol

Molecular formula:  $\text{KH}_2\text{PO}_4$

## 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**

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.

### **Special hazards arising from the substance or mixture**

Oxides of phosphorus, Potassium oxides

### **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. Avoid breathing dust.



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### 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

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:** crystals

**Colour:** colorless

**Odour:** not available

**pH value:** not available

**Melting point:** 253 °C

**Boiling point:** not available

**Ignition temperature:** not available

**Flash point:** not available

**Autoignition temperature:** not available

**Explosion limits**



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**lower:** not available

**upper:** not available

**Density :** 2.34 g/cm<sup>3</sup>

**Bulk density:** not available

**Solubility in**

**water (20 °C) :** not available

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

**Thermal decomposition:** not available

### 10. Stability and reactivity

**Chemical stability**

no data available

**Conditions to avoid**

Exposure to moisture

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Other decomposition products - no data available

### 11. Toxicological information

**Acute toxicity**

LD50 Oral - Rat - > 2.000 mg/kg

LD50 Dermal - Rabbit - > 4.640 mg/kg

**Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation - 4 h

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: No eye irritation

**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**



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The methods for determining the biological degradability are not applicable to inorganic substances.

**Bioaccumulative potential**

Does not bioaccumulate.

**Mobility in soil**

no data available

**PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

**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: - 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. 453/2010.

### 16. Other information

General update.

*Regional representation:*

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