



## Jiangsu Khonor Chemicals Co., Limited

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2016/1/16

# Material Safety Data Sheet (MSDS)

Product Name: Zinc Hydrogen Phosphate

Chemical Formula: ZnHPO<sub>4</sub>

Synonyms: Zinc Monohydrogen Phosphate, ZnHPO<sub>4</sub> Powder

CAS Number: 10031-84-4

Recommended Use: Industrial, Pharmaceutical, Food Additive, Ceramic Applications

Supplier: Jiangsu Khonor Chemicals Co., Limited

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## 1. Identification

Product Identifier: Zinc Hydrogen Phosphate (ZnHPO<sub>4</sub>)

Relevant Identified Uses:

Industrial zinc compound

Nutritional supplement

Ceramic glaze additive

Phosphate source in fertilizers

Restrictions on Use: None specified

## 2. Hazard(s) Identification

GHS Classification: Not classified as hazardous under GHS

Label Elements:

Signal Word: None

Hazard Statements: None

Precautionary Statements:

Avoid inhalation of dust  
Wash hands after handling  
Use personal protective equipment (PPE)  
Pictograms:

### 3. Composition / Information on Ingredients

Component CAS Number Concentration  
Zinc Hydrogen Phosphate 10031-84-4 ≥ 99%

### 4. First Aid Measures

Inhalation:

Move person to fresh air  
Seek medical attention if symptoms persist

Skin Contact:

Wash with plenty of soap and water  
Remove contaminated clothing

Eye Contact:

Rinse immediately with water for at least 15 minutes  
Seek medical attention if irritation occurs

Ingestion:

Rinse mouth thoroughly  
Do not induce vomiting  
Seek medical advice

Pictorial Aid:

### 5. Firefighting Measures

Suitable Extinguishing Media: Water spray, foam, dry powder, CO<sub>2</sub>

Special Hazards: Non-flammable, but decomposition may release toxic fumes of phosphates or zinc oxides at high temperatures

Protective Equipment: Self-contained breathing apparatus (SCBA), protective gloves and goggles

### 6. Accidental Release Measures

Avoid dust formation  
Sweep up carefully, place in suitable container for disposal  
Ventilate area  
Pictorial Aid:

## 7. Handling and Storage

Handling:

Minimize dust generation

Wear PPE (mask, gloves, goggles)

Storage:

Store in cool, dry, well-ventilated area

Keep container tightly closed

Avoid incompatible materials (strong acids, strong bases)

## 8. Exposure Controls / Personal Protection

Occupational Exposure Limits: No specific limits established

Engineering Controls: Local exhaust ventilation

Personal Protective Equipment:

Respiratory protection: dust mask

Hand protection: chemical-resistant gloves

Eye protection: safety goggles

Body protection: lab coat / protective clothing

## 9. Physical and Chemical Properties

Property	Value
Appearance	White crystalline powder
Odor	Odorless
pH (10% solution)	5.5 – 7.0
Melting Point	> 1000°C
Solubility in Water	Slightly soluble
Density	3.4 g/cm <sup>3</sup>

Pictorial Representation:

## 10. Stability and Reactivity

Chemical Stability: Stable under normal conditions

Conditions to Avoid: Moisture, high temperature

Incompatible Materials: Strong acids, strong bases

Hazardous Decomposition Products: Zinc oxide, phosphoric acid fumes at high temperature

## 11. Toxicological Information

Acute Toxicity: Low toxicity

Skin/Eye Irritation: May cause mild irritation on prolonged contact

Inhalation: Dust may irritate respiratory tract

Carcinogenicity / Mutagenicity: Not listed as carcinogenic

## **12. Ecological Information**

Aquatic Toxicity: Low

Persistence / Degradability: Inorganic, persists in soil

Bioaccumulation: Not significant

## **13. Disposal Considerations**

Dispose of in accordance with local regulations

Avoid release to the environment

## **14. Transport Information**

Not classified as dangerous goods

UN Number: N/A

ADR / RID / IMDG / IATA: Not regulated

## **15. Regulatory Information**

Complies with international chemical safety regulations

Safe for industrial, food, and pharmaceutical use under proper handling

## **16. Other Information**

MSDS Prepared by: Jiangsu Khonor Chemicals Co., Limited

Revision Date: 2026-01-15

Disclaimer: Information is believed to be accurate, but no warranty is expressed or implied. Users should verify suitability for their intended applications.

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