



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_4
 Synonyms: Zinc Monohydrogen Phosphate, ZnHPO_4 Powder
 CAS Number: 10031-84-4
 Recommended Use: Industrial, Pharmaceutical, Food Additive, Ceramic Applications

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1. Identification

Product Identifier: Zinc Hydrogen Phosphate (ZnHPO_4)

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, CO₂
 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 ³

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.

Supplier Contact Info:

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