



Jiangsu Khonor Chemicals Co., Limited

Iron III Phosphate or Ferric Phosphate or Ferric Orthophosphate

CAS Number: 10045-86-0 Anhydrous, 13463-10-0 Dihydrate and 51833-68-2 for Hydrate Iron III Phosphate or Ferric Phosphate or Ferric Orthophosphate

Molecular Formula: FePO₄ Iron III Phosphate or Ferric Phosphate or Ferric Orthophosphate Anhydrous

Molecular Weight: 150.82 Iron III Phosphate or Ferric Phosphate or Ferric Orthophosphate Anhydrous



Iron III Phosphate or Ferric Phosphate or Ferric Orthophosphate

Ferric phosphate or Iron (III) phosphate or Ferric Orthophosphate Anhydrous
Dihydrate, Hydrate and Soluble SDS GHS, Safety Data Sheet
MSDS Sheet, Material Safety Data Sheet 04-Feb-24

1. Product Identification

Product Name & Other Names: Ferric phosphate or Iron (III) phosphate or Ferric Orthophosphate Anhydrous Dihydrate, Hydrate and Soluble.

CAS No.: 10045-86-0 Anhydrous, 13463-10-0 Dihydrate and 51833-68-2 for Hydrate

EINECS EC Number: 233-149-7

Relevant uses and uses advised against (if any): Industrial Manufacturing.

Supplier: Jiangsu Khonor Chemicals Co., Limited

Call Toll Free: 0086-19851820538

In case of emergency contact: 0086-19851820538

2. Hazards Identification

GHS, Globally Harmonized System Classification in accordance with 29 CFR 1910
Classification according to Regulation (EC) No 1272/2008



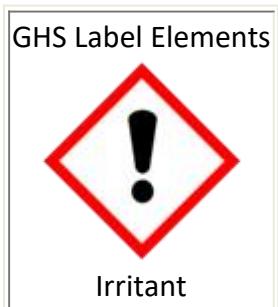
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Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Labeling according to GHS & Regulation (EC) No 1272/2008



Signal Words: Warning

Hazard statements:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Precautionary statements:

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264: Wash ... thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with soap and water.

P332+313: If skin irritation occurs: Get medical advice/attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+313: If eye irritation persists get medical advice/attention.

P501: Dispose of contents/container to authorized agents only.

3. Composition/Information on Ingredients

Product Name & Other Names: Ferric phosphate or Iron (III) phosphate or Ferric Orthophosphate Anhydrous Dihydrate, Hydrate and Soluble.

CAS No.: 10045-86-0 Anhydrous, 13463-10-0 Dihydrate and 51833-68-2 for Hydrate

EINECS EC Number: 233-149-7

4. First Aid Measures

Always seek medical attention after first aid measures are provided.



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Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Flammability of the Product: Non-flammable.

Products of Combustion: Oxides of Iron, toxic and corrosive gases/vapors (phosphorus oxides).

Fire Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. At high temperatures under fire conditions, it may produce toxic or irritating fumes. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Containers may explode on heating.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Avoid breathing dust/fumes/gas/mist/vapors/spray. Use individual protective equipment (waterproof boots, suitable protective clothing, safety glasses, etc.). Restrict unprotected personnel from the area. Do not approach facing the wind. Do not touch the spilled material.

Environmental precautions: Do not let the product enter drains, soil, or water sources.

Methods and materials used for containment Cleanup procedures and Storage: Do not inhale dust, vapors, mist, or gas. Avoid dust formation. Contain spilled material. Cover with an inert, non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate as per law.

7. Handling and Storage



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Precautions for safe handling: Apply according to good manufacturing and industrial hygiene practices. Ensure proper ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash thoroughly after handling. Do not drink, eat, or smoke while handling. Avoid contact with skin, eyes, and clothing. Minimize dust generation. Avoid breathing dust/fumes/gas/mist/vapors/spray. Keep container tightly closed. Avoid ingestion and inhalation. Use individual protective equipment (waterproof boots, suitable protective clothing, safety glasses, etc.).

Conditions for safe storage, including any incompatibilities: Store in cool, dry, and ventilated area away from heat sources and protected from sunlight in tightly closed original container. Keep air contact to a minimum. Store protected from heat, sparks and ignition sources and incompatible materials. Avoid contact with skin and eyes. Avoid inhalation of dust/mist/vapor. Do not store with incompatible materials like strong oxidizing agents.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: TWA: 1 mg/m³ from ACGIH (TLV) [United States].

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator may be worn.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Other Control Measures: Maintain good housekeeping in work area. Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling.

9. Physical and Chemical Properties

Appearance: Yellow-brown powder.

Odor: It is odorless.

Odor threshold: Not applicable.

pH: No data found.

Relative density: about 3.06 anhydrous and 2.87dihydrate.

Melting point/freezing point: 250C anhydrous.

Initial boiling point and boiling range: No data found.

Flash point: No data found.

Auto-ignition temperature: No data found.

Decomposition temperature: No data found.

Upper/lower flammability or explosive limits: No data found.

Vapor pressure: No data found.



Vapor density: No data found.

Evaporation rate: No data found.

Flammability (solid, gas): No data found.

Partition coefficient: n-octanol/water: No data found.

Solubility: It is insoluble in water.

Viscosity: No data found.

Molecular Weight: 150.82 Anhydrous.

Chemical Formula: FePO₄ Anhydrous.

10. Stability and Reactivity

Stability: It is stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: It emits toxic fumes and corrosive gases/vapors (phosphorus oxides) and iron oxide when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizing agents.

Conditions to Avoid: Incompatibles heat.

11. Toxicological Information

Toxicity to animals: Acute oral toxicity (LD50): >2000 mg/kg [Rat].

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as possible or confirmed human carcinogen by IARC, ACGIH, OSHA and NTP.

Teratogenic Effects: No data found.

Mutagenic Effects: No data found.

Developmental Toxicity: No data found.

Reproductive Effects: No data found.

12. Ecological Information

Toxicity to fish: No data found.

Persistence and Degradability: No data found.

Mobility: No data found.

Bioaccumulation/ Accumulation: No data found.

Results of PBT and vPvB assessment: No data found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility.

14. Transport Information



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Land Transport DOT USA, TDG Canada & ADR/RID Europe: Not dangerous goods.

Sea Transport IMDG/IMO: Not dangerous goods.

Air Transport IATA/ICAO: Not dangerous goods.

15. Regulatory Information

USA:

SARA 311/312 Hazards: See section 2.

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

European Labeling in Accordance with EC Directives:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

DISCLAIMER: The information and recommendations set forth herein are presented in good faith and believed correct as of the date hereof. It is compiled from various sources, and it is not necessarily all inclusive nor fully adequate in every circumstance. In addition, these suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules, or insurance requirements applicable. This SDS MSDS sheet is intended only as a guide to the appropriate precautionary handling of the material by a professionally trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. In no case shall our company be liable to loss or damages by the product user.