



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA StandardsProduct Name:

Dipotassium Phosphate (Feed Grade)Revision Date: February 27, 2026

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifiers

- Product Name: Dipotassium Phosphate (DKP, Anhydrous)
- CAS-No.: 16788-57-1
- Synonyms: Potassium hydrogen phosphate; Secondary potassium phosphate
- Molecular Formula: K_2HPO_4
- Molecular Weight: 174.18 g/mol

1.2 Supplier Details

- Company: NEWAY SINOPHC TECH. LIMITED
- Address: RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
- Telephone: +86-021-50350029
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1.3 Emergency Telephone

- Emergency Phone #: +86-021-50350029 (CHEMTREC)

1.4 Uses

- **Identified Uses:** Feed additive; potassium and phosphorus mineral supplement; pH regulator/buffer for animal feed and drinking water.
- **Uses Advised Against:** Not for human pharmaceutical injection; no use in industrial chemical plating without further purification.

SECTION 2: Hazards Identification

- **GHS Classification:** Eye Irritation (Category 2); Skin Irritation (Category 2).
- **Label Elements**
 - Hazard Pictogram: (Exclamation mark)
 - Signal Word: **Warning**
 - Hazard Statements: H315 (Causes skin irritation), H319 (Causes serious eye irritation)
 - Precautionary Statements: P264, P280, P302+P352, P305+P351+P338, P332+P313
- **Physical Hazards:** Non-flammable, non-explosive; hygroscopic (absorbs moisture easily).
- **Health Hazards:** Mild skin and eye irritation; inhalation of dust may cause mild respiratory discomfort. No acute toxicity.
- **Environmental Hazards:** Low aquatic toxicity; excessive release may contribute to water eutrophication (phosphate enrichment).

SECTION 3: Composition/Information on Ingredients

- **Substance:** Pure inorganic salt.
- **Active Ingredient:** Dipotassium Phosphate (100%, CAS 16788-57-1).
- **Hazardous Impurities:** None (fluoride and heavy metals controlled to feed grade limits).

SECTION 4: First-Aid Measures

- **Inhalation:** Move to fresh air, keep warm and at rest. If coughing or irritation persists, consult a doctor.
- **Skin Contact:** Rinse skin thoroughly with plenty of running water and mild soap for 10-15 minutes. Remove contaminated clothing and wash before reuse.
- **Eye Contact:** Rinse cautiously with water for 15-20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical advice immediately.
- **Ingestion:** Rinse mouth with water. Give plenty of water to drink. Do not induce vomiting. No toxic effects expected at feed grade exposure; consult a doctor only if severe gastrointestinal discomfort occurs.

SECTION 5: Fire-Fighting Measures

- **Extinguishing Media:** Water spray, dry chemical powder, foam, carbon dioxide (CO₂).
- **Hazardous Combustion Products:** Non-combustible; decomposes at extreme high temperatures (>800°C) to produce potassium oxide and phosphorus oxides (irritating fumes).
- **Firefighter Precautions:** Wear self-contained breathing apparatus (SCBA) and full fire protective gear if decomposition fumes are present. Fight fire from a safe distance.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear dust mask (FFP1), nitrile gloves and safety goggles. Avoid dust formation and inhalation.
- **Environmental Precautions:** Prevent spilled powder from entering drains, sewers or natural water bodies to avoid eutrophication.
- **Clean-Up Methods:**
 - Small Spill: Gently sweep up the powder and collect in a sealed container for reuse or disposal.
 - Large Spill: Contain with plastic barriers; transfer to sealed drums. Do not wash into drainage systems.

SECTION 7: Handling and Storage

- **Handling:** Use in a well-ventilated area. Avoid creating dust clouds. Wash hands thoroughly with soap and water after handling. Use anti-static equipment if handling large quantities.
- **Storage:**
 - Store in a cool, dry, well-ventilated warehouse; keep container tightly closed to prevent moisture absorption and caking.
 - Storage temperature ≤ 30°C, relative humidity ≤ 70%.
 - Incompatibilities: Strong acids (releases heat), strong oxidizing agents, acidic feed additives (in concentrated form).
 - Shelf Life: 24 months (unopened, under specified storage conditions).

SECTION 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Local exhaust ventilation (LEV) recommended for large-scale processing to reduce dust concentration.



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• **Personal Protective Equipment (PPE):**

- Eyes: Chemical splash goggles with side shields (mandatory for bulk handling).
- Skin: Nitrile rubber gloves and protective overalls (prevents skin irritation from prolonged contact).
- Respiratory: FFP1 dust mask for regular handling; no respirator needed under normal conditions.

SECTION 9: Physical and Chemical Properties

- **Appearance:** White, odorless crystalline powder or granules.
- **pH Value:** 8.5 - 9.5 (1% w/v aqueous solution, 25°C).
- **Melting Point:** 340°C (decomposes).
- **Solubility:** Freely soluble in water (≈ 160 g/100 mL at 25°C); insoluble in ethanol and ether.
- **Bulk Density:** 1.2 - 1.5 g/cm³.
- **Hygroscopy:** Moderately hygroscopic (absorbs moisture from air).
- **Vapor Pressure:** Negligible (solid inorganic salt).
- **Flammability:** Non-flammable.

SECTION 10: Stability and Reactivity

- **Stability:** Stable under normal storage and use conditions.
- **Hazardous Reactions:** No hazardous chemical reactions under normal use; reacts exothermically with concentrated strong acids.
- **Hazardous Decomposition Products:** Potassium oxide (K₂O), phosphorus pentoxide (P₂O₅) (only at extreme temperatures).

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat) > 5,000 mg/kg; practically non-toxic.
- **Skin Irritation:** Mild irritation (rabbit test, 4-hour exposure).
- **Eye Irritation:** Moderate irritation (rabbit test, reversible within 72 hours).
- **Chronic Toxicity:** No adverse chronic effects reported in animal feed studies; essential mineral for animal metabolism.

SECTION 12: Ecological Information

- **Aquatic Toxicity:** LC₅₀ (Zebrafish, 96h) > 10,000 mg/L; no acute toxicity to aquatic organisms.
- **Persistence and Degradability:** Not biodegradable (inorganic salt); naturally occurs in the environment.
- **Bioaccumulation Potential:** None (inorganic ions, no bioaccumulation in organisms).
- **Environmental Impact:** Phosphates may cause eutrophication in closed water bodies if released in large quantities; safe at normal use levels.

SECTION 13: Disposal Considerations

- **Product Waste:** Uncontaminated waste can be reused as feed additive or fertilizer. Contaminated waste is disposed of as non-hazardous waste in accordance with local regulations.



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- **Container Disposal:** Rinse empty containers thoroughly with water (rinse water can be added to feed premixes); recycle or dispose of as non-hazardous waste.

SECTION 14: Transport Information

- **UN Number:** Not applicable (Non-hazardous for transport).
- **UN Proper Shipping Name:** Not dangerous goods.
- **Transport Class:** Not applicable.
- **Packing Group:** Not applicable.
- **Marine Pollutant:** No.
- **Special Precautions:** Transport in moisture-proof packaging; avoid rain, snow and high humidity during transit to prevent caking. Do not transport with concentrated strong acids.

SECTION 15: Regulatory Information

- **China:** Complies with GB 13078 (Feed Hygiene Standard), listed in the Feed Additive Variety Catalogue (Ministry of Agriculture and Rural Affairs).
- **EU:** Complies with REACH (registered) and EC 1831/2003 (approved for animal nutrition).
- **US:** FDA approved for use in animal feed (21 CFR Part 573); GRAS listed for relevant applications.

SECTION 16: Other Information

- This MSDS is prepared in accordance with GB/T 16483, GB/T 17519 and GHS (Rev. 9) standards. The information is based on the best available scientific data as of February 27, 2026.

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NEWAY SINOPHC TECH