



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>

Material Safety Data Sheet (MSDS)

According to GB/T 16483, GB/T 17519, GHS, IMDG, IATA **Product Name:** Mono Dicalcium Phosphate (Feed Grade) **Revision Date:** February 27, 2026

SECTION 1: Identification

1.1 Product Identifiers

- Name: Mono Dicalcium Phosphate (MDCP)
- CAS: 7758-23-8
- Synonyms: Calcium phosphate, monobasic-dibasic; Calcium hydrogen phosphate monohydrate
- Use: Mineral supplement for animal feed (provides phosphorus and calcium).

1.2 Supplier Details

- Company: NEWAY SINOPHC TECH. LIMITED
- Address: RM. 204, BLDG 3, 188 Aona Rd, Shanghai FTZ, China.
- Tel: +86-021-50350029 | Fax: +86-021-50350029
- Emergency Phone: +86-021-50350029 (24h)

SECTION 2: Hazards Identification

- **GHS Classification:** Skin Corrosion/Irritation (Cat 2); Eye Damage/Irritation (Cat 2).
- **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.
- **Other Hazards:** Dust may cause respiratory irritation. Not flammable.

SECTION 3: Composition/Information on Ingredients

- **Substance:** Technical Grade Mixture.
- **Active Ingredient:** Mono Dicalcium Phosphate (100%, CAS 7758-23-8).
- **Impurities:** Fluoride (≤ 180 ppm), trace minerals. No hazardous ingredients.

SECTION 4: First-Aid Measures

- **Inhalation:** Remove to fresh air. If coughing persists, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water for 15 minutes. Remove contaminated clothing.
- **Eye Contact:** Rinse thoroughly with running water for 15-20 minutes. Remove contact lenses. Seek medical help if irritation lasts.
- **Ingestion:** Rinse mouth. Give water to drink. Do NOT induce vomiting. Consult a physician if large amounts are swallowed.

SECTION 5: Fire-Fighting Measures

- **Extinguishing Media:** Water spray, dry chemical, foam, CO₂.



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- **Hazards in Fire:** Non-combustible. Decomposes at high temperatures to produce phosphoric acid fumes and calcium oxide.

- **Firefighter Precautions:** Wear SCBA and full protective gear. Avoid inhaling fumes.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear dust mask (FFP2), goggles, and gloves. Avoid dust inhalation.
- **Clean-Up:** Sweep up with a brush and collect in a sealed container for reuse or disposal. Avoid generating dust. Do not wash into drains.

SECTION 7: Handling and Storage

- **Handling:** Use in a well-ventilated area. Avoid creating dust. Wash hands thoroughly after handling.
- **Storage:** Store in a cool, dry, well-ventilated warehouse. Keep container tightly closed to prevent caking from moisture.
- **Incompatibilities:** Strong acids (releases heat), strong alkalis.
- **Shelf Life:** 24 months (unopened, under recommended conditions).

SECTION 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Local exhaust ventilation to control dust.
- **PPE:**
 - Eyes: Chemical splash goggles (mandatory).
 - Skin: Chemical-resistant gloves (nitrile) and protective clothing.
 - Respiratory: FFP2 respirator if dust levels are high.

SECTION 9: Physical and Chemical Properties

- **Appearance:** White, free-flowing crystalline powder.
- **Odor:** Odorless.
- **pH:** 3.0 - 4.5 (1:20 suspension).
- **Melting Point:** Decomposes > 200°C.
- **Solubility:** Slightly soluble in water; soluble in dilute acids.
- **Bulk Density:** 1.1 - 1.4 g/cm³.
- **Vapor Pressure:** Negligible.

SECTION 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Hazardous Reactions:** No dangerous reactions under normal use. Reacts with strong acids.
- **Decomposition Products:** Phosphorus oxides, calcium oxide (at high temp).

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ (Oral, Rat) > 5,000 mg/kg (Low toxicity).
- **Irritation:** Causes mild skin irritation and moderate eye irritation.
- **Chronic:** No known chronic effects at feed grade levels.

SECTION 12: Ecological Information

- **Toxicity:** Low toxicity to aquatic life.



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- **Persistence:** Not biodegradable (inorganic mineral).
- **Impact:** Phosphates may contribute to eutrophication if released in large quantities into water bodies.

SECTION 13: Disposal Considerations

- **Waste:** Dispose of in accordance with local regulations. Uncontaminated material can be recycled as a fertilizer.
- **Containers:** Rinse thoroughly. Dispose of as non-hazardous waste or recycle.

SECTION 14: Transport Information

- **UN Number:** Not applicable (Non-hazardous for transport).
- **Classification:** Not Dangerous Goods.
- **Precautions:** Protect from rain and moisture during transit to prevent caking.

SECTION 15: Regulatory Information

- **China:** Complies with GB 13078 (Feed Hygiene) and GB/T 22549 (MDCP Feed Standard).
- **EU:** Complies with REACH and EC 1831/2003.
- **US:** Approved by FDA for use in animal feed.

SECTION 16: Other Information

This MSDS is accurate as of February 27, 2026, based on current scientific data.

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