



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, IATAProduct Name: Ferrous Sulphate Heptahydrate (Feed Grade)**Revision Date:** February 27, 2026

SECTION 1: Identification

1.1 Product Identifiers

- Name: Ferrous Sulphate Heptahydrate
- CAS: 7782-63-0
- Synonyms: Iron (II) sulphate; Green Vitriol; Copperas
- Use: Iron supplement for animal feed; prevents anemia.

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 Corr. 1B (H314); Eye Dam. 1 (H318); Aquatic Acute 1 (H400).
- **Pictograms:** Corrosion (), Environment (), Exclamation Mark ().
- **Signal Word: Danger**
- **Hazard Statements:**
 - H314: Causes severe skin burns and eye damage.
 - H400: Very toxic to aquatic life.
- **Precautionary Statements:** P260, P280, P301+P330+P331, P303+P361+P353, P304+P340+P310.

SECTION 3: Composition/Information on Ingredients

- **Substance:** Pure Chemical.
- **Ingredient:** Ferrous Sulphate Heptahydrate (100%, CAS 7782-63-0).
- **Hazards:** Corrosive due to acidic nature; oxidizes to ferric oxide (Fe_2O_3) when exposed to air/moisture.

SECTION 4: First-Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. Call a physician immediately.
- **Skin Contact: IMMEDIATELY** rinse skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse.
- **Eye Contact: IMMEDIATELY** rinse eyes with plenty of water for at least 15 minutes, holding eyelids open. **Do not delay;** seek immediate medical attention.
- **Ingestion:** Do NOT induce vomiting. Rinse mouth. Give water to drink. Call a poison center or physician immediately.

SECTION 5: Fire-Fighting Measures

- **Extinguishing Media:** Water spray, dry chemical, foam, CO_2 .



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- **Hazards in Fire:** Non-combustible. Decomposes on heating to produce toxic sulfur oxides (SO_x) and iron oxide fumes.
- **Firefighter Precautions:** Wear SCBA and full chemical protective gear. Avoid runoff entering waterways.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear FFP2 respirator, chemical-resistant gloves (butyl rubber), and face shield.
- **Environmental Precautions: Prevent material from entering drains, sewers, or water bodies** (high aquatic toxicity).
- **Clean-Up:** Sweep up and collect in a sealed container. Neutralize with lime (calcium hydroxide) before disposal if necessary. Do not use water unless contained.

SECTION 7: Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing. Use in a well-ventilated area. Wash hands thoroughly after handling. **Do not mix with alkaline materials** (releases hydrogen gas).
- **Storage:** Store in a cool, dry, well-ventilated area. Keep container tightly closed to prevent **oxidation** and dehydration. Store away from alkalis, strong oxidizers, and foodstuffs.
- **Shelf Life:** 12 months (unopened, under recommended conditions).

SECTION 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Local exhaust ventilation required.
- **PPE:**
 - Eyes: Full face shield or chemical splash goggles (mandatory).
 - Skin: Impervious gloves (butyl rubber) and acid-resistant apron.
 - Respiratory: FFP2 respirator for dust.

SECTION 9: Physical and Chemical Properties

- **Appearance:** Bluish-green monoclinic crystals.
- **Odor:** Odorless.
- **pH:** 3.0 - 4.0 (5% solution, acidic).
- **Melting Point:** 64°C (loses water of crystallization).
- **Solubility:** Freely soluble in water (25.5 g/100 mL at 20°C).
- **Bulk Density:** 1.8 - 2.0 g/cm³.
- **Hygroscopy:** Deliquescent; oxidizes to brown ferric sulfate in air.

SECTION 10: Stability and Reactivity

- **Stability:** Stable under inert gas. Unstable in air (oxidizes to Fe³⁺).
- **Reactivity:** Reacts violently with strong alkalis, strong oxidizers, and magnesium. Generates flammable hydrogen gas with zinc/alkalis.

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ (Oral, Rat) = 1520 mg/kg (Toxic if swallowed).
- **Corrosion:** Causes severe burns to skin and eyes due to acidity.



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- **Chronic:** May cause iron overload if ingested in large quantities over time.

SECTION 12: Ecological Information

- **Aquatic Toxicity:** Very toxic to fish and aquatic invertebrates (H400).
- **Persistence:** Iron is a natural element but can cause oxygen depletion in water bodies.

SECTION 13: Disposal Considerations

- **Waste:** Dispose of as hazardous waste in accordance with local regulations. Neutralize with lime before disposal.
- **Containers:** Rinse thoroughly with water (collect rinse water). Dispose of as hazardous waste.

SECTION 14: Transport Information

- **UN Number:** UN3077 (Environmentally hazardous substance, solid, n.o.s.).
- **Class:** 9.
- **Packing Group:** III.
- **Marine Pollutant:** Yes (P).
- **Precautions:** Transport in acid-resistant, sealed containers. Do not transport with food, feed, or alkalis.

SECTION 15: Regulatory Information

- **China:** Complies with GB 13078 and GB/T 10648 (Feed Additive Standards).
- **EU:** Complies with REACH and EC 1831/2003.
- **US:** FDA 21 CFR Part 573.320.

SECTION 16: Other Information

This MSDS is accurate as of February 27, 2026. **Critical Note:** Product will turn brown upon oxidation (loss of potency); use only if blue-green.

纳维盈医化科技
NEWAY SINOPHC TECH