



# 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 Standards)

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name: Iron(III) Oxide
- Product Number: FEO-20260220
- Brand: SIGALD
- CAS-No.: 1309-37-1
- Synonyms: Ferric Oxide; Red Iron Oxide

#### 1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

#### 1.3 Emergency telephone

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

#### 1.4 Uses

- Identified Uses: Pigment (paints, coatings, plastics), ceramics, glass, metallurgy, magnetic materials, cosmetics.
- Uses Advised Against: Pharmaceutical or direct oral consumption.

### SECTION 2: Hazards Identification

2.1 GHS Classification: Eye irritation (Category 2A); Skin irritation (Category 2)2.2 GHS Label Elements

- Hazard Pictogram: GHS07 (Exclamation mark)
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation), H319 (Causes serious eye irritation)
- Precautionary Statements: P264 (Wash hands thoroughly after handling), P280 (Wear protective gloves/eye protection), P305+P351+P338 (If in eyes: Rinse cautiously with water for several minutes)

### SECTION 3: Composition

- Substance: Pure Substance
- Formula: Fe<sub>2</sub>O<sub>3</sub>
- Molecular Weight: 159.69 g/mol
- Concentration: ≥ 99.0% (Fe<sub>2</sub>O<sub>3</sub>)

### SECTION 4: First Aid Measures

- Inhaled: Move to fresh air. If coughing persists, consult a doctor.
- Skin Contact: Rinse skin with running water for 10 minutes.



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- Eye Contact: Rinse eyes thoroughly with running water for 15 minutes. Consult a doctor if irritation remains.
- Swallowed: Rinse mouth with water. Do not induce vomiting. Seek medical advice if discomfort occurs.

### **SECTION 5: Firefighting Measures**

- Suitable Extinguishing Media: Water spray, foam, dry powder, CO<sub>2</sub>.
- Special Hazards: Non-combustible. No hazardous combustion products.
- Firefighter Protection: Wear standard fire-fighting gear.

### **SECTION 6: Accidental Release Measures**

- Personal Precautions: Wear gloves, eye protection, dust mask.
- Cleanup Methods: Sweep up with inert material, transfer to sealed containers. Avoid dust dispersion.

### **SECTION 7: Handling and Storage**

- Handling: Avoid dust inhalation. Operate in well-ventilated area.
- Storage: Store in cool, dry, well-ventilated warehouse. Keep container tightly closed.
- Shelf Life: 36 months (unopened, proper storage).

### **SECTION 8: Exposure Controls/Personal Protection**

- PPE: Nitrile gloves, safety goggles, dust mask (for large-scale handling).
- Engineering Controls: Good ventilation, dust collection system.

### **SECTION 9: Physical and Chemical Properties**

- Physical State: Powder
- Color: Red-brown
- Odor: Odorless
- Melting Point: 1565°C (decomposes)
- Boiling Point: Decomposes
- Solubility: Insoluble in water; soluble in strong acids.
- Density: 5.24 g/cm<sup>3</sup> (25°C)
- Particle Size: 1-10 μm (customizable)

### **SECTION 10: Stability and Reactivity**

- Stable under normal conditions. Incompatible with strong reducing agents.

### **SECTION 11: Toxicological Information**

- Oral LD<sub>50</sub> (Rat): > 5000 mg/kg
- Skin Irritation: Mild irritation.
- Eye Irritation: Moderate irritation.

### **SECTION 12: Ecological Information**

- Aquatic Toxicity: Low toxicity to aquatic organisms.
- Biodegradability: Not biodegradable.

### **SECTION 13: Disposal Considerations**



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- Dispose in accordance with local regulations. Classified as non-hazardous waste.

### **SECTION 14: Transport Information**

- UN Number: Not regulated as dangerous goods
- Transport Hazard Class: -
- Packaging Group: -

### **SECTION 15: Regulatory Information**

- Complies with GHS, REACH, TSCA, FDA (for cosmetic grade) regulations.

### **SECTION 16: Other Information**

- Revision Date: 20 FEB 2026

