



# 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(II) Sulfide
- Product Number: FES-20260201
- Brand: SIGALD
- CAS-No.: 1317-37-9
- Synonyms: Ferrous Sulfide

#### 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: Chemical synthesis (hydrogen sulfide production), catalyst, metallurgy, laboratory reagent, pigment.
- Uses Advised Against: Direct oral consumption; contact with strong acids without protection.

### SECTION 2: Hazards Identification

2.1 GHS Classification: Eye irritation (Category 2A); Skin irritation (Category 2); Aquatic toxicity (Category 1); Respiratory irritation (Category 3)2.2 GHS Label Elements

- Hazard Pictogram: GHS07 (Exclamation mark), GHS09 (Environment)
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation), H319 (Causes serious eye irritation), H335 (May cause respiratory irritation), H400 (Very toxic to aquatic life)
- Precautionary Statements: P261 (Avoid breathing dust), P264 (Wash hands thoroughly after handling), P280 (Wear protective gloves/eye protection), P305+P351+P338 (If in eyes: Rinse cautiously with water)

### SECTION 3: Composition

- Substance: Pure Substance
- Formula: FeS
- Molecular Weight: 87.91 g/mol
- Concentration: ≥ 95.0% (FeS)

### SECTION 4: First Aid Measures

- Inhaled: Move to fresh air. If coughing persists, consult a doctor.



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- Skin Contact: Rinse skin with running water for 10 minutes.
- 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. Reacts with strong acids to release toxic hydrogen sulfide gas.
- Firefighter Protection: Wear standard fire-fighting gear; avoid inhalation of gas.

## SECTION 6: Accidental Release Measures

- Personal Precautions: Wear gloves, eye protection, dust mask.
- Environmental Precautions: Prevent runoff into waterways.
- Cleanup Methods: Sweep up with inert material, transfer to sealed containers for disposal.

## SECTION 7: Handling and Storage

- Handling: Avoid dust inhalation. Operate in well-ventilated area. Avoid contact with strong acids.
- Storage: Store in cool, dry, well-ventilated warehouse. Keep container tightly closed. Avoid moisture and strong acids.
- Shelf Life: 24 months (unopened, proper storage).

## SECTION 8: Exposure Controls/Personal Protection

- PPE: Nitrile gloves, safety goggles, dust mask (P2/N95 for large-scale handling).
- Engineering Controls: Good ventilation, local exhaust system.

## SECTION 9: Physical and Chemical Properties

- Physical State: Powder/lumps
- Color: Black
- Odor: Odorless (reacts with acids to produce hydrogen sulfide smell)
- Melting Point: 1194°C
- Solubility: Insoluble in water; soluble in dilute acids (releases H<sub>2</sub>S).
- Density: 4.84 g/cm<sup>3</sup> (25°C)

## SECTION 10: Stability and Reactivity

- Stable under normal conditions. Incompatible with strong acids, oxidizing agents.

## SECTION 11: Toxicological Information

- Oral LD<sub>50</sub> (Rat): > 2000 mg/kg
- Skin Irritation: Mild to moderate irritation.
- Eye Irritation: Moderate irritation.

## SECTION 12: Ecological Information

- Aquatic Toxicity: Very toxic to aquatic organisms (releases sulfide ions in water).



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- Biodegradability: Not biodegradable.

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

- Dispose in accordance with local regulations. Classified as non-hazardous waste (avoid contact with acids during disposal).

### **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 regulations.

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

- Revision Date: 01 FEB 2026



纳维盈医化科技  
NEWAY SINOPHC TECH