

## Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

### Polyferric Sulfate (PFS)

#### SECTION 1: Identification

##### 1.1 Product Identifiers

- Product Name: Polyferric Sulfate (PFS)
- Product Number: PFS-CAS1327419-202610
- Brand: SIGALD
- CAS-No.: 1327-41-9
- Synonyms: Polymeric Ferric Sulfate; Iron(III) Polysulfate
- Chemical Family: Inorganic Polymer Flocculant

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

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

##### 1.3 Emergency telephone

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

##### 1.4 Uses & Restrictions

- Identified Uses: Water treatment (municipal sewage, industrial wastewater, drinking water purification); sludge dewatering; environmental engineering flocculant.
- Uses Advised Against: Pharmaceutical, food, or household purposes.

#### SECTION 2: Hazards Identification

2.1 GHS Classification: Skin corrosion/irritation (Category 1B); Eye damage (Category 1); Corrosive to metals (Category 1)2.2 GHS Label Elements

- Hazard Pictogram: (Corrosion)
- Signal Word: DANGER
- Hazard Statements: H314 (Causes severe skin burns and eye damage); H290 (May corrode metals)
- Precautionary Statements: P260, P280, P301+P330+P331, P304+P340, P305+P351+P338
- 2.3 Physical/Chemical Hazards: Corrosive to metals (aluminum, zinc); releases heat when mixed with water; reacts violently with strong bases.2.4 Health Hazards: Severe skin/eye burns; inhalation of mist irritates nasal and respiratory tract mucosa.2.5 Environmental Hazards: Low toxicity to aquatic organisms; avoid direct discharge without neutralization.



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## SECTION 3: Composition/Information on Ingredients

- Substance/Mixture: Mixture (Inorganic Polymer) | Main Component | Content (w/w) | CAS-No. | Hazard Classification | |-----|-----|-----|-----| Polyferric Sulfate | 11.0-13.0% (as Fe) | 1327-41-9 | Skin Corros. 1B; Eye Dam. 1; Metal Corros. 1 | | Deionized Water | Balance | 7732-18-5 | Non-hazardous |

## SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; administer oxygen if breathing is difficult; seek medical attention.
- Skin Contact: Remove contaminated clothing; rinse skin with plenty of water for  $\geq 15$  minutes; consult a doctor.
- Eye Contact: Hold eyelids open; rinse with water/normal saline for  $\geq 15$  minutes; seek emergency medical help.
- Swallowed: Do not induce vomiting; rinse mouth with water; bring this MSDS to the doctor.

## SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, CO<sub>2</sub>, dry powder.
- Unsuitable Media: Direct high-pressure water jet (may splatter corrosive liquid).
- Special Hazards: Non-combustible; decomposes above 100°C releasing sulfur oxides (SO<sub>x</sub>).
- Firefighter Advice: Wear SCBA and corrosion-resistant protective clothing; cool containers with water spray.

## SECTION 6: Accidental Release Measures

- Personal Precautions: Wear full PPE (goggles, face shield, nitrile gloves, acid-resistant clothing).
- Environmental Precautions: Prevent runoff into sewers/rivers; contain with sandbags.
- Cleanup: Small spill - absorb with inert materials (sand, vermiculite) and neutralize with lime; large spill - dike and transfer to corrosion-resistant tanks.

## SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated area; avoid contact with skin/eyes; do not mix with strong bases/oxidizing agents.
- Storage: Cool, dry warehouse ( $\leq 30^{\circ}\text{C}$ ); keep container tightly closed; store separately from bases/metals.
- Shelf Life: 6 months (unopened, specified conditions).

## SECTION 8: Exposure Controls/Personal Protection

- PPE: Chemical safety goggles, face shield, nitrile rubber gloves (0.15mm+), acid-resistant clothing.
- Respiratory Protection: Half-mask respirator with acid gas cartridges (when mist is generated).
- Engineering Controls: Local exhaust ventilation; acid-resistant equipment.

## SECTION 9: Physical and Chemical Properties

- Physical State: Liquid; Color: Dark red brown; Odor: Slight pungent acidic odor



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- pH (1% Solution): 1.8-3.2; Density (25°C): 1.48-1.58 g/cm<sup>3</sup>; Viscosity (25°C): 15-35 mPa·s
- Boiling Point: Decomposes; Solubility: Fully miscible with water; Decomposition Temperature: >100°C

### SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions; Incompatible with strong bases, oxidizing agents, active metals.
- Hazardous Decomposition Products: SO<sub>x</sub>, iron oxides (above 100°C).

### SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>): >2500 mg/kg (5% aqueous solution); Dermal (Rabbit, LD<sub>50</sub>): >5000 mg/kg
- Skin/Eye Irritation: Severe skin burns and eye damage (GHS 1B/1).

### SECTION 12: Ecological Information

- Fish (Zebrafish, LC<sub>50</sub>): >150 mg/L (96h); Biodegradability: Biodegradable in natural water.

### SECTION 13: Disposal Considerations

- Product Waste: Neutralize to pH 6-9 with lime/sodium carbonate; dispose via licensed hazardous waste facilities.
- Packaging Waste: Rinse thoroughly; dispose as hazardous waste or recycle.

### SECTION 14: Transport Information

- UN Number: UN 3260; Transport Class: 8; Packaging Group: III
- UN Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Polyferric Sulfate)
- Environmental Hazards: No

### SECTION 15: Regulatory Information

- National Regulations: Complies with China Hazardous Chemical Safety Management Regulation; GB/T 14591-2016.
- International Regulations: GHS Rev.9 (Corrosion 1B); REACH (not in SVHC List); TSCA (listed).

### SECTION 16: Other Information

- Revision Date: 10 OCT 2025
- Disclaimer: Based on current scientific knowledge; supplier not liable for improper use.