Material Safety Data Sheet
Polymeric Ferric Sulfate

Section 1: Chemical Product and Company Identification

Product Name: Polymeric Ferric Sulfate
Chemical Formula: Fe₂(SO₄)₃ · xH₂O
Company Identification: Tradeasia International Pte Limited
Address: 133 Cecil Street #12-03 Keck Seng Tower, Singapore
Tel: +65-6227 6365
Fax: +65-6225 6286
Email: contact@chemtradeasia.com

Section 2: Composition and Information on Ingredients

Composition:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymeric Ferric Sulfate</td>
<td>10028-22-5</td>
<td>100</td>
</tr>
</tbody>
</table>

Section 3: Hazards Identification

Classification of the substance or mixture:

Acute toxicity, Oral
Eye irritation
Specific target organ toxicity - single exposure
Harmful if swallowed. Irritating to eyes and respiratory system.

Section 4: First Aid Measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

Overdose of iron compounds may have a corrosive effect on the gastrointestinal mucosa and be followed by necrosis, perforation, and stricture formation. Several hours may elapse before symptoms that can include epigastric pain, diarrhea, vomiting, nausea, and hematemesis occur. After apparent recovery a person may experience metabolic acidosis, convulsions, and coma hours or days later. Further complications may develop leading to acute liver necrosis that can result in death due to hepatic coma. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**Section 5: Fire and Explosion Data**

**Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Suitable extinguishing media**

Sulphur oxides, Iron oxides

**Special hazards arising from the substance or mixture**

Sulphur oxides, Iron oxides

**Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

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**Section 6: Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections
For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. hygroscopic Light sensitive.

Section 8: Exposure Controls/Personal Protection

Control parameters
Components with workplace control parameters

Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
**Body Protection**
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection**
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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**Section 9: Physical and Chemical Properties**

| Property                          | Value
|----------------------------------|-------
| Appearance                       | Solid
| Color                            | Yellow
| Water solubility                 | Soluble
| Vapor Density                    | Not available
| Percent Volatile by Volume       | Not available
| Solubility in Water              | Soluble
| pH value (1% water solution)     | 2 – 3

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**Section 10: Stability and Reactivity Data**

| Property                          | Value
|----------------------------------|-------
| Reactivity                       | No data available
| Chemical stability               | No data available
| Possibility of hazardous reactions | No data available
| Conditions to avoid              | Avoid moisture. Light.
| Incompatible materials           | Strong oxidizing agents
| Hazardous decomposition products | Other decomposition products - no data available

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**Section 11: Toxicological Information**

**Information on toxicological effects**

**Acute toxicity**
No data available

Inhalation: No data available
Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
no data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Potential health effects

Inhalation  May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion   Harmful if swallowed.
Skin        May be harmful if absorbed through skin. May cause skin irritation.
Eyes        Causes serious eye irritation.

Signs and Symptoms of Exposure
Overdose of iron compounds may have a corrosive effect on the gastrointestinal mucosa and be followed by necrosis, perforation, and stricture formation. Several hours may elapse before symptoms that can include epigastric pain, diarrhea, vomiting, nausea, and hematemesis occur. After apparent recovery a person may experience metabolic acidosis, convulsions, and coma hours or days later. Further complications may develop leading to acute liver necrosis that can result in death due to
hepatic coma. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

No data available

Section 13: Disposal Considerations

Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

Section 14: Transport Information

UN number

ADR/RID: -  IMDG: -  IATA: -

UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: -  IMDG: -  IATA: -

Packaging group

ADR/RID: -  IMDG: -  IATA: -

Environmental hazards
ADR/RID: no  IMDG Marine pollutant: no  IATA: no

Special precautions for user
no data available
Section 15: Other Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

Chemical Safety Assessment

no data available

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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