

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

**Section 1: Identification****Product Name** Ferric Subsulfate Solution USP (Monsel's Solution)**Commercial Name** Monsel's Solution**Product Use** Not available**Restrictions On Use** Not available**Product Code** 30-3361**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300****Section 2: Hazard(s) Identification****OSHA Haz Com:** Not available.**CFR 1910.1200****Signal Word** NON-HAZARDOUS**Hazard Statement(s)** Not available**Pictogram(s) or Symbol(s)****Precautionary Statement(s):****Prevention** Not available**Response** Not available**Storage** Not available**Disposal** Not available**Section 3: Composition/Information on Ingredients****Substance/Mixture** Mixture**Components** Ferric Subsulfate Solution USP, Water**% By Weight** Ferric Subsulfate Solution USP:20-22%, Water:78-80%**CAS#** 1310-45-8, 7732-18-5**Molecular Weight** Not applicable.**Chemical Formula**  $\text{Fe}_4(\text{OH})_2(\text{SO}_4)_5 \cdot x\text{H}_2\text{O}$ , Monsel's solution**Synonym(s)** Not available.**Mixtures**

<b>Name</b>	<b>CAS#</b>	<b>% by Weight</b>	<b>TLV/PEL</b>	<b>LC50/LD50</b>
Ferric Subsulfate Solution USP (Monsel's Solution)	1310-45-8	20-22	Not available	Not available
Water	7732-18-5	78-80	Not available	Not available

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**Section 4: First-Aid Measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Skin Contact</b>	Wash skin with soap and water.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Not available
<b>Delayed</b>	Not available
<b>Immediate Medical Attention</b>	
Treat symptomatically.	

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable Extinguishing Media**

Do not scatter spilled material with high pressure water streams.

**Products of Combustion**

Not available

**Firefighters Special Equipment and Precautions**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**Section 6: Accidental Release Measures**

Ensure adequate ventilation. Methods for containment: Prevent further leakage or spillage if safe to do so. Methods for cleaning up: Pick up and transfer to properly labeled containers.

**Section 7: Handling and Storage**

Handling; Handle in accordance with good industrial hygiene and safety practice. Storage: Temperatures above 22.0 °C / 71.6 °F. Sensitive to light. Store in light-resistant containers. Keep container tightly closed.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Controls</b>	Showers Eyewash stations Ventilation systems.
<b>Personal Protection</b>	Eye/face protection: No special protective equipment required. Skin and body protection: No special protective equipment required. Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

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**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Brownish-red liquid.		
<b>Odor</b>	Not available		
<b>Odor Threshold</b>	Not applicable		
<b>Melting Point</b>	Not available.	<b>pH</b>	Not applicable
<b>Freezing Point</b>	Not applicable	<b>Vapor Pressure</b>	Not available
<b>Boiling Point/Range</b>	Not available	<b>Vapor Density</b>	Not available
<b>Decomposition temperature</b>	Not applicable	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not applicable	<b>Evaporation Rate</b>	Not applicable
<b>Flash Point</b>	Not applicable.	<b>Autoignition temperature</b>	Not applicable
<b>Flammability</b>	Not applicable	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not applicable
		<b>Upper</b>	Not applicable
<b>Solubility(ies)</b>	Miscible in water		
<b>Other</b>	Relative density 1.5		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Hazardous Polymerization</b>	Not available
<b>Conditions to Avoid</b>	Not available
<b>Incompatible Materials</b>	Not available.
<b>Hazardous Decomposition Products</b>	Not available.

**Section 11: Toxicological Information****RTECS** Not available.**Acute Toxicity**

Oral LD50 &gt; 90 mL/kg ( Rat )

**Skin Corrosion/Irritation**

Not available

**Serious Eye Damage/Irritation**

Not available

**Respiratory or Skin Sensitization**

Not available

**Germ Cell Mutagenicity**

Not available

**Carcinogenicity**

Not available

**Reproductive Toxicity**

Not available

**Routes of Entry**

Not available

**Symptoms Related to Exposure**

Not available

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**Potential Health Effects**

Not available.

**Target Organ(s)** liver, respiratory system, Eyes, Skin, Gastrointestinal tract (GI).**Section 12: Ecological Information****Ecotoxicity**

Not available

**Persistence and Degradability**

Not available

**Bioaccumulative Potential**

Inherently biodegradable.

**Mobility in Soil**

Not available

**Other Adverse Effects**

Not available

**Section 13: Disposal Considerations****Waste Disposal**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Disposal of Container**

Do not reuse empty containers.

**Other Considerations**

Not available

**Section 14: Transport Information****DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

**Section 15: Regulatory Information****Regulations**

Not available.

**Other**

Not available

**Section 16: Other Information**

The data provided herein are based upon information believed to be reliable. This information is not to be considered as a warranty or quality specification and we do not assume any responsibility, including injury or damage, resulting from its use as such or in combination with other materials.