



Material Safety Data Sheet

I - Product Information:*Product Name:***Ferric Sub sulfate, USP (Monsels' Solution)****Code:** 1284*Empirical Formula:*Fe₄(OH)₂(SO₄)₅**CAS#:** 1310-45-8*Chemical Name:*

Basic Ferric Sulfate Solution.

Uses:

Styptic.

II - Toxicological Information:*Irritancy:*

May cause irritation to skin, eyes, mucous membranes and respiratory tract.

Adverse Effects:

May be harmful if swallowed, inhaled or absorbed through the skin. Large doses may lead to iron poisoning and cause abdominal pain, nausea, retching and vomiting, hypermotility, diarrhoea, colic or constipation and black stool. May affect the urinary system/kidneys. May cause liver damage consisting of hemorrhagic necrosis. May affect CNS (somnia- general depressed activity, seizures, irritability, drowsiness, hyporeflexia, coma), respiration, cardiovascular system (weak pulse, hypotension), metabolism (metabolic acidosis) and blood (leukocytosis). Repeated high exposure may lead to iron build-up in the body causing nausea, vomiting, stomach pain, constipation or diarrhoea, black bowel movements, mild lethargy, irritability, leukocytosis, normocytic anaemia, hemochromatosis in the Kupfer cells of the liver or in the reticuloendothelial cells of the bone marrow. Damage may occur to the spleen, lymphatic system, and liver. Fibrosis or other damage may also occur to the pancreas. Symptoms may include hypoglycemia, hyperglycemia. Prolonged eye contact may cause brownish discoloration of eyes.

Toxicity Data:

N/A

III - Physical Data:*Physical State:*Liquid X Solid ___ Gas ___*Description:*

Reddish brown liquid, odorless or nearly so. Acid to litmus, and is affected by light.

Solubility:

N/A

Other Physical Properties:

mw: 737.71 Specific Gravity: 1.548 Boiling Point: >100°C

IV - Fire And Explosion Hazards:*Flammability:*

Non-flammable.

Flash Point:

N/A

Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Fire-Fighting:

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

V - Reactivity Data:*Stability:*

Stable

Incompatibilities:

Light. Crystallization may occur if exposed to temperatures < 22°C, warming will redissolve the crystals.

Hazardous Decomp. Products:

N/A

Hazardous Polymerization:

Will not occur.

VI - Preventive Measures:*Preventive Measures:*

Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Personal Protective Equipment:

Chemical resistant gloves, goggles, respirator approved by the NIOSH/MSHA and other protective clothing.

Specific Engineering Controls:

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

Spills & Leaks:

Shut off all sources of ignition. Evacuate the area. Wear respirator, chemical safety goggles rubber boots and heavy rubber gloves. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

Waste Disposal:

Dispose of in accordance with federal / local laws and regulations.

Storage:

Preserve in tight, light resistant containers, and store at temperatures above 22°.

Status:

N/A

VII - First Aid Measures:*Eyes:*

Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

Skin:

Wash with soap and water for 15 minutes. If irritation persists seek medical aid.

Ingestion:

Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

NOTE: If victim is unconscious, never induce vomiting nor give liquids. Place victim in a stable side position and keep warm.*Ecological Data:*

N/A

Hazardous Ingredients:

N/A

References:

Available on request