

Humco Holding Group, Inc.
7400 Alumax Drive
Texarkana, TX 75501
800-662-3435

Item # 0395-0910

Ferric Sub sulfate

DATE PREPARED: 04/06/89

SECTION I

PRODUCT IDENTIFICATION

Product Name: Ferric Sub sulfate

Synonyms: Ferric sulfate; iron subsulfate; monsel's salt; iron hydroxide sulfate

Formula CAS No.: 1310-45-8

Molecular Weight: 737.7 (Approx.)

Hazardous Ingredients: Not applicable

Chemical Formula: $\text{Fe}_4(\text{OH})_2(\text{SO}_4)_5$ (Approx.)

PRECAUTIONARY MEASURES

CAUTION! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION.

Avoid contact with eyes. Wash thoroughly after handling.

EMERGENCY FIRST AID

If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. In all cases call a physician.
SEE SECTION 6.

Emergency Telephone Numbers:

Humco Holding Group, Inc.
Chemtrec

800-662-3435
800-424-9300

SECTION II

PHYSICAL DATA

Appearance: Light yellow hygroscopic powder.

Odor: Odorless

Solubility: Soluble in water.

Boiling Point: Not applicable.

Melting Point: Decomposes.

Vapor Density (Air = 1): No information found.

Vapor Pressure (mm Hg): No information found.

Specific Gravity: 1.55

Evaporation Rate: No information found.

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SECTION III FIRE AND EXPLOSION INFORMATION

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION IV REACTIVITY DATA

Stability: Light sensitive (darkens).

Hazardous Decomposition Products: Oxides and sulfur and the contained metal.

Hazardous Polymerization: This substance does not polymerize.

Incompatibilities: No incompatibility data found.

SECTION V LEAK/SPILL DISPOSAL INFORMATION

Sweep, scoop or pick up spilled material. Collected waste may be transferred to a closed, preferably metal, container and sent to an approved waste disposal facility.

Ensure compliance with local, state and federal regulations.

SECTION VI HEALTH HAZARD INFORMATION

EXPOSURE/HEALTH EFFECTS

Inhalation: Excessive inhalation of dust is irritating to the respiratory tract.

Ingestion: Low toxicity in small quantities but larger dosages may cause nausea, vomiting, diarrhea, and black stool. Pink urine discoloration is a strong indicator of iron poisoning. Liver damage, coma, and death from iron poisoning have been reported.

Skin contact: May cause irritation.

Eye contact: No adverse effects expected but dust may cause mechanical irritation.

Chronic Exposure: No information found.

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Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

FIRST AID

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call physician immediately.

Skin Exposure: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Exposure: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

TOXICITY

No LD50/LC50 information found relating to normal routes of occupational exposure.

SECTION VII

OCCUPATIONAL CONTROL MEASURES

Airborne Exposure Limits: OSHA Permissible Exposure Limit (PEL): 1 mg/3 (TWA) soluble iron salts as Fe; ACGIH Threshold Limit Value (TLV): 1 mg/m³ (TWA) soluble iron salt as Fe.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

Personal Respirators (NIOSH Approved): If the TLV is exceeded, a dust/mist respirator may be worn up to ten times the TLV. Consult respirator supplier for details.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

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REGULATORY STATUS

**Hazard Categories for SARA
Section 311/312 Reporting**

Acute Chronic Fire Pressure Reactive
X

SARA Sec. 313

Product or Components Of Product:	SARA EHS		Chemicals		CERCLA	RCRA
	Sec. 302 RQ	302 TPQ	Name List	Chemical Category	Sec. 103 RQ lbs	Sec. 261.33
Ferric Sulfate (1310-45-8)	No	No	No	No	No	No

SARA Section 302 EHS RQ:

Reportable Quantity of Extremely Hazardous Substance, listed at 40 CFR 355.

SARA Section 302 EHS TPQ:

Threshold Planning Quantity of Extremely Hazardous substance. An asterisk (*) following a Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micrometers, the Threshold Planning Quantity = 10,000 LBS.

SARA Section 313 Chemicals:

Toxic Substances subject to annual release reporting requirements listed at 40 CFR 372.65.

CERCLA Sec. 103:

Comprehensive Environmental Response, compensation and Liability Act (Superfund) Releases to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center, (800-424-8802); Listed at 40 CFR 302.4.

RCRA:

Resource Conservation and Recovery Act. Commercial chemical product wastes designated as acute hazards or toxic under 40 CFR 261.33.

Revised 12/04/07