



Material Safety Data Sheet

Ferric Sulfate

Date Issued: 01/03/10

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Component: Iron granules

CAS number: 010028-22-5

Concentration: 70-78%

ACGIH TWA: 1 mg/m³ (as Fe), (iron salts, soluble)

I. Product Identification

Product Name: **Ferric Sulfate**

Chemical Family: Inorganic salt

II. Hazards Identification

Emergency Overview:

Irritating to skin, eyes, and mucous membranes. Harmful or fatal if swallowed.

Potential Effects on Health: Acute

Carcinogenicity: Does not contain any known carcinogens or potential carcinogens.

III. First Aid Measures

General: If you feel unwell, seek medical attention (show the label or this MSDS if possible). Effects of the exposure (inhalation, ingestion, or skin contact) to the substance may be delayed. Ensure that medical personnel are aware of the material (s) involved, and take precautions to protect themselves.

Eye Contact: Immediately irrigate with large amounts of water for at least 15 minutes. Hold eyelids apart during irrigation. Send patient to physician immediately

Skin Contact: Flush skin with plenty of water. Remove contaminated clothing, jewelry, and shoes. Wash affected area with soap or mild detergent and running water for at least 15 minutes. If irritation persists, seek medical attention.

Inhalation: Remove person from exposure area to fresh air. Give artificial respiration ONLY if breathing has stopped. Do not use mouth-to-mouth method if victim has ingested or inhaled the substance: induce artificial

respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain medical attention immediately

Ingestion: If conscious, give two (2) glasses of water. **DO NOT INDUCE VOMITING.** Do not give anything by mouth to an unconscious person. Call physician immediately.

IV. Fire and Explosion Hazard Data

Flashpoint: Not applicable. Will not burn.

Auto ignition Temperature: N/A

Upper Flame Limit N/A

Lower Flame Limit N/A

Combustion and thermal Oxides of sulfur.

Decomposition products

Rate of burning Does not burn

Explosive Power N/A

Sensitivity to Static Discharge Not available

Fire and Explosion Hazards: During a fire, oxides of sulfur may be evolved.

Extinguishing Media: The substance is not combustible. Use extinguishing media appropriate to the surrounding fire.

NOTE: Also see Section 10 – Stability and reactivity

V. Storage and Handling

Handling: **Handle all chemicals with respect.** Avoid contact with skin, eyes or clothing. Wear protective clothing. Review the label, this MSDS and any other applicable information before use.

Keep separated from incompatible substances.

Storage: Store in a tank of suitable construction. Ensure that all storage containers are labeled.

VI. Accidental Release Measures/Waste Disposal

Spill, leak or release procedures:

Restrict access until clean-up operations complete. Wear appropriate Personal Protective Equipment per Section 7.

Ensure trained personnel conduct clean up and wear Personal Protective Equipment per Section 7.

Stop leak if possible. Avoid personal risk.

Notify Authorities if release exceeds reportable quantity to Federal, State or Local authorities.

Small Spills- Absorb spill with clay or dry material or neutralize with lime, limestone or soda ash and collect in appropriate container for disposal. Neutralization with soda ash can generate carbon dioxide so additional ventilation may be necessary.

Large Spills- Prevent entry into sewers and confined areas. Dike, if possible. Keep unnecessary people away, isolate area and deny entry. Pump liquid material into appropriate vessels as possible or absorb spill with clay absorbents or non-reactive dry materials and collect in appropriate container for disposal.

Neutralize spill residuals carefully with lime, limestone, or soda ash and collect in suitable container for disposal.

Flush area with water. This could generate carbon dioxide so additional ventilation may be necessary Notify the appropriate environmental authorities.

VII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Preventive Measures:

Engineering Controls: A ventilation system of local/general exhaust is recommended to keep employee exposure below the Airborne Exposure Limits. Ensure that eyewash station and safety showers are proximal to the workstation location.

Personal Protection Equipment

Eye Protection: Wear splash resistant chemical goggles and where dust exposure is possible, a full face shield. Maintain eye wash station and quick-drench facilities in work area. Do not wear contact lenses.

Skin Protection: Wear impervious gloves, and apron and full work clothing including long sleeved shirts, trousers and boots. Full impervious clothing is recommended if prolonged product contact is anticipated.

Respiratory Protection: Under conditions of dusting or contact with head gases, respiratory protection may be needed. Consider respirator warning properties before use.

- With limited contact use an appropriate chemical cartridge respirator with acid gas cartridge(s).
- When cleaning, decontaminating or performing maintenance on tanks, containers, piping systems and accessories, and in any other situations where airborne contaminants and/or dust could be generated, use protective equipment to protect against ingestion or inhalation. HEPA or air supplied respirator, full protective coveralls with head cover, gloves and boots or chemical suits, and boots are suggested.

VIII. Physical and Chemical Properties

Appearance and odor: Yellowish granules/ slight odor.

pH as is: 1 (10% in water)

Molecular Weight: Mixture.

Chemical Formula: Mixture

Boiling point: N/A

Freezing point: N/A

Specific gravity: 3.1

Vapor Pressure N/A

Vapor Density N/A

Solubility in water: soluble

Volatile (by wt. %): NA

IX. Stability and Reactivity Data

Hazardous Polymerization: Will not occur under normal temperatures and pressures.

X. Transportation Information

US DOT Hazard Class: 8,PGIII

Proper Shipping Name: Corrosive Liquid, N.O.S. Corrosive Material (ferric sulfate)

UN #: UN 3264

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

XI. Toxicological and Ecological Information

Reproductive Effects: N/A

Teratogenicity and Fetotoxicity: N/A

Synergistic Materials: N/A

Ecological Information: N/A

XII. TRANSPORT INFORMATION

EMERGENCY Telephone Numbers:
1-800-424-9300 CHEMTREC (USA)
1-613-996-6666 CANUTEC (CANADA) (CALL COLLECT)

IATA/ICAO Class: N/A

XIII. REGULATORY INFORMATION

USA CLASSIFICATION:

CERCLA: Hazardous substance/reportable quantity (RQ): final RQ=1000lb. (454 kg)
SARA Regulations sections 313 and 40 CFR 372: No

SARA Hazard Categories, SARA SECTIONS 311/312 (40CFR370.21):

TSCA: This substance or all ingredients of this product are listed on the Chemical Substances Inventory of the TSCA. **Does not require reporting.**

Other Regulations/Legislation which apply to this product:

California Proposition 65: No

Right-To-Know Lists: Massachusetts, New Jersey, Pennsylvania, California

This product does not contain, nor is it manufactured with, ozone-depleting substances.

XIII. Other Information

National Fire Protection Association (NFPA) and Hazardous Materials Identification System (HMIS) Ratings:

4=Extreme/Severe

3=High/Serious

2=Moderate

1=Slight

0=Minimum

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