

**THATCHER COMPANY MATERIAL SAFETY DATA SHEET****PRODUCT: FERRIC SULFATE SOLUTION, 60%**

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MSDS Date: March 26, 2007

Emergency Contact: 1-800-424-9300

**SECTION I****PRODUCT NAME:** Ferric Sulfate Solution 60% (12% Iron)**DOT SHIPPING INFORMATION:** Corrosive Liquids, n.o.s. (Ferric sulfate),  
8, UN 1760, PG III**SECTION II - HAZARDOUS INGREDIENTS**

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Ferric sulfate	10028-22-5	60	1 mg/m <sup>3</sup> (TWA) soluble iron salt as Fe
Free Sulfuric Acid	7664-93-9	<2	TLV = 1 mg/m <sup>3</sup> (TWA)

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

This product is subject to EPCRA Section 313 (40 CFR Part 372) reporting requirements

**SECTION III - PHYSICAL DATA****BOILING POINT 750 mm hg:** Approx. 212° F                      **SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** about 1.55**VAPOR PRESSURE (mm Hg):** N/A                                      **% VOLATILE, BY VOLUME:** N/A**VAPOR DENSITY (air = 1):** N/A                                      **EVAPORATION RATE:** Butyl Acetate - 1**SOLUBILITY IN WATER:** Infinite                                      **pH (as is):** Approx. 2 - **(1% soln):** Approx. 4.8**APPEARANCE AND ODOR:** Red-Brown solution with no detectable odor.**SECTION IV - FIRE AND EXPLOSION DATA****FLASH POINT:** Nonflammable**FLAMMABLE LIMITS:**

Lel: N/A                      Uel: N/A

**EXTINGUISHING MEDIA:**Product does not burn or support flame. If product is present in a fire, water, CO<sub>2</sub> or dry chemical may be used. Product is highly acidic and if in open container, avoid splashing.**SPECIAL FIRE-FIGHTING PROCEDURES:**

Do not allow product or water containing product to enter a navigable stream. At temperatures above 600° C, product decomposes to iron oxide and sulfur trioxide.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None known

**SECTION V - REACTIVITY DATA**



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**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**CONDITIONS OR MATERIALS TO AVOID:**

Product solution is corrosive to mild steel, copper, copper alloys and galvanized steel. May be corrosive to paints, enamels and concrete. Reacts with lime and other basic materials to form insoluble iron salts.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

None normally. At temperatures above 600° C, sulfur trioxide may be released.

**SECTION VI - HEALTH HAZARD DATA**

**CARCINOGENIC LISTING:**

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section

**ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:**

**Contact:** Causes burns to skin. Corrosive to the eyes.

**Ingestion:** Toxic by ingestion.

**STATEMENT OF PRACTICAL TREATMENT:**

**Contact:** Flush exposed area thoroughly with water while removing contaminated clothing. If irritation persists, consult a physician. Wash clothing before reuse. *Immediately* flush eyes thoroughly with cool water for at least 15 minutes and obtain *immediate* medical attention.

**Inhalation:** Remove to fresh air. Treat symptomatically.

**Ingestion:** Treat as a corrosive liquid. If conscious, give several glasses of water or milk. **Do not** induce vomiting. Call a physician immediately.

**SECTION VII - SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE PRECAUTIONS:**

Liquid Ferric Sulfate solution is corrosive to mild steel. Storage and equipment materials should include fiberglass, reinforced plastics, plastics, rubber, lead, type 304 or better grades of stainless steel.

**STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:**

Prohibit product from running into streams or navigable waters. Neutralize and remove to approved landfill. Wash down spill area with water. Check with waste treatment plant before flushing down large amounts of spilled product.

**WASTE DISPOSAL METHOD:**

Neutralize with lime, soda ash, or bicarbonate and remove to approved landfill.



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**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:**

None known necessary under normal use. If mists occur, or may occur, use a respirator having an activated carbon filter suitable for sulfuric acid mists.

**VENTILATION:**

Normal room ventilation is sufficient.

**EYE PROTECTION:**

Chemical goggles.

**SKIN PROTECTION:**

Chemical or rubber gloves.

**OTHER PROTECTIVE EQUIPMENT:**

Acid resistant clothing is recommended. Safety shoes are recommended when handling product in drums.

**ACGIH** = American Conference of Governmental Industrial Hygienists

**CL** = Ceiling Level

**IARC** = International Agency for Research on Cancer: Monographs

**OSHA** = Occupational Safety and Health Administration

**N/A** = Not Applicable

**NTP** = National Toxicology Program: Annual Report on Carcinogens

**PEL** = Permissible Exposure Level (OSHA)

**TLV** = Threshold Limit Value (ACGIH)

**TWA** = Time Weighted Average over 8 Hours

**STEL** = Short Term Exposure Limit (ACGIH)

**ND** = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.