



THATCHER COMPANY MATERIAL SAFETY DATA SHEET
PRODUCT: FERROUS SULFATE SOLUTION (6%)
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MSDS Date: November 20, 2007
Emergency Contact: 1-800-424-9300

SECTION I

PRODUCT NAME: Ferrous Sulfate Solution
SYNONYMS: Iron Sulfate Solution
CHEMICAL NAME: Ferrous Sulfate
CHEMICAL FAMILY: Metal Salt
FORMULA: FeSO₄ A H₂O

DOT SHIPPING INFORMATION: Corrosive liquid, n.o.s. (sulfuric acid), 8, UN1760, PGIII

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
Ferrous Sulfate Solution	7720-78-7	6% (as Fe)	None determined

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.

SECTION III - PHYSICAL DATA

BOILING POINT (F): Abt. 215

SPECIFIC GRAVITY: Abt. 1.4

VAPOR PRESSURE (mm Hg): Vapor is water

% VOLATILE, BY VOLUME: Abt. 65%

VAPOR DENSITY (air = 1): Vapor is water

EVAPORATION RATE: Unknown

SOLUBILITY IN WATER: Complete

APPEARANCE AND ODOR: Greenish to yellow-brown liquid with a muddy type odor.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: Nonflammable

FLAMMABLE LIMITS: Lel: N/A Uel: N/A

EXTINGUISHING MEDIA: Use any.

SPECIAL FIRE-FIGHTING PROCEDURES: None.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.



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SECTION V - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS OR MATERIALS TO AVOID: None.

SECTION VI - HEALTH HAZARD DATA

NFPA HAZARDOUS RATING: Health = 2 Flammability = 0 Reactivity = 0

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: Can cause severe irritation to eyes and skin.

Ingestion: Large amounts can cause nausea, dizziness and diarrhea.

STATEMENT OF PRACTICAL TREATMENT:

Contact: Flush exposed area thoroughly with water. For eyes, flush with cool water for at least 15 minutes. If irritation persists, consult a physician.

Ingestion: If conscious, give several glasses of water or milk. Contact a physician or Local Poison Control Center. *Induce* vomiting *only* if told do to so by medical authority.

SECTION VII - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin and eyes. Do not take internally. Wash thoroughly after handling. Store in a cool, dry area.

STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:

Wear safety equipment. Scoop up and recover into drums. Flush residue to sewer with large amounts of water (If permitted). Comply with all local, state and federal regulations.

WASTE DISPOSAL METHOD:

Waste product is an EPA hazardous waste due to pH. Dispose of in an approved waste disposal facility. Comply with all local, state and federal regulations.



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SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None normally required.

VENTILATION: Maintain adequate ventilation.

EYE PROTECTION: Chemical goggles.

SKIN PROTECTION: Rubber gloves.

OTHER PROTECTIVE EQUIPMENT: As needed to avoid contact with skin and eyes.

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.