



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

FERRIC CHLORIDE HEXAHYDRATE ACS

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Iron (III) Chloride Hexahydrate, Iron Trichloride

CAS #: 10025-77-1

DOT Hazard Class: Corrosive Solid, Acidic, Inorganic, N.O.S.
(Ferric Chloride Hexahydrate)
Hazard Class 8, UN3260, PGIII

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS #	%
Ferric Chloride Hexahydrate ACS	10025-77-1	100%

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A yellow crystal that is corrosive. Will cause irritation to skin, eyes and respiratory tract.

POTENTIAL HEALTH EFFECTS:

Skin: Will cause skin irritation.

Eyes: Will cause irritation.

Inhalation: Will cause irritation to the respiratory tract.

Ingestion: Will cause irritation to the gastrointestinal tract. Repeated large doses can cause excess iron buildup in the body.

CARCINOGENICITY: Not Identifiable

SECTION 4 - FIRST AID MEASURES

Skin: Immediately wash skin with soap and water for at least 15 minutes.

Eyes: Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart.

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

Ingestion: Give large amounts of water. Induce vomiting unless otherwise instructed by medical personnel.

On All Of The Above: Seek medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Available

Flammable Limits: Not Available

Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Fire Fighting Procedures: Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turnout gear.

Unusual Fire Explosion Hazard: During a fire, irritating and highly toxic gasses may be generated by thermal decomposition or combustion.

Auto Ignition Temperature: Not Available

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches that lead to waterways.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin and eyes from dust.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION *Continued:*

WORK, HYGIENIC PRACTICES: As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: Threshold Limit Value (TLV): $1\text{mg}/\text{m}^3$ (as Fe)

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 280-285 °C @ 760mm Hg

Vapor Pressure (MM Hg): Not Available

Vapor Density (AIR=1): Not Available

Specific Gravity (H₂O=1): 1.82

Percent Volatile by Volume (%): Not Available

Melting Point: 37 °C

Evaporation Rate (Butyl Acetate=1): Not Available

Solubility in Water: Freely Soluble (920g/L @ 20 °C)

pH: 2 (1M Solution)

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits Chlorine gas when heated to decomposition.

KEEP AWAY FROM: Heat, strong acids, bases and oxidizers.

SECTION 11 - TOXICOLOGICAL INFORMATION

Not Available

SECTION 12 - ECOLOGICAL INFORMATION

Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

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Dispose of in accordance with all federal, state and local regulations.
RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Corrosive Solid, Acidic, Inorganic, N.O.S.
TECHNICAL SHIPPING NAME: Same
U.N./NUMBER: UN3260
D.O.T. HAZARD CLASS AND GROUP NUMBER: Hazard Class 8, PG III
D.O.T. PLACARD: Corrosive
PRODUCT LABEL: Ferric Chloride Hexahydrate ACS

SECTION 15 - REGULATORY INFORMATION

OSHA STATUS: Not listed

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS (RQ): None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Not listed

Section 313 Toxic Chemicals: Not listed

Section 311/312 Hazard Category: Acute Health Hazard: Immediate

SECTION 16 - OTHER INFORMATION

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 0

Reason for Issue: Changed Date

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