Material Safety Data Sheet



Iron (III) Chloride, Anhydrous

Revised: 11/18/2011 **Replaces:** 10/13/2011 **Printed:** 08/10/2012

Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150 www.carolina



Section 1 - Product Description

Product Name: Ferric Chloride, Anhydrous **Product Code(s):** 86-2460, 86-2462, 84-0900

Size: 100 g, 500 g

Chemical Name: Ferric Chloride **CAS Number:** 7705-08-0

Formula: FeC13

Synonyms: Iron Chloride, Anhydrous

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

Section 2 - Hazard Identification

Emergency Overview: DANGER - Causes burns. Harmful if swallowed. Decomposition produces noxious fumes. Contact

with water liberates toxic, extremely flammable gases.

Potential Health Effects:

Eyes: May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Ferric Chloride, Anhydrous(7005-08-0) 100%

TLV units: ACGIH-TLV 1 mg(Fe)/m3 (TWA)

PEL units: N/A

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

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NFPA Rating: Health: 2 Fire: 0 Reactivity: 1

Extinguisher Media: Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Liberates hydrochloric acid fumes when damp.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place.

Readily absorbs moisture from air. Avoid direct sunlight and heat. Keep away from water and ice Avoid contact with skin and eyes.

Harmful by inhalation and if swallowed. Keep container tightly closed and dry.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes Mechanical(General): Yes

Special: No **Other:** No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 162.22 **Melting Point:** Approx. 300 °C

Boiling Point: Approx. 316 °C **Vapor Pressure:** N/A

Vapor Density(Air=1): N/A Specific Gravity (H2O=1): 2.9
Percent Volatile by Volume: N/A Evaporation Rate (BuAc=1): N/A

Solubility in Water: Soluble **Appearance and Odor:** Dark reddish-brown or blue crystals.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Moisture; Product is hygroscopic. **Incompatibility (Materials to Avoid):** Water, Acids,

Hazardous Decomposition Products: Halogenated compounds (Cl, F, Br), HCl,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

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Toxicity Data: orl-rat LD50 316 mg/kg

Effects of Overexposure: Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA. **Conditions Aggravated by Overexposure:** Respiratory disorders,

Target Organs: Respiratory system, Liver, Kidneys, **Primary Route(s) of Entry:** Inhalation and ingestion.

Section 12 - Ecological Data

EPA Waste Numbers: D002

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1773

Ferric Chloride, Anhydrous

Class 8 P.G. III

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:Chemical Category:Ferric Chloride - NoFerric Chloride - No

CERCLA Section 103 RQ(lb.): Ferric Chloride - 1000

RCRA Section 261.33: Ferric Chloride - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value

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