

MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/19/2012 REVISION NUMBER: 2

DATE PRINTED: 04/19/2012

1. CHEMICAL PRODUCT

PRODUCT NAME: Ferric Chloride

PRODUCT CODE: 119295

NFPA/HMIS HAZARD CODES(minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health:2/2Fire:0/0Reactivity:1/1Special/Protective Equipment:CORR/C

NAME OF THE Rochester Midland Corporation

MANUFACTURER: 155 Paragon Drive

Rochester, New York 14624

USA

Emergency Phone:

INFOTRAC: 1-800-535-5053 OUTSIDE US: 1-352-323-3500

2. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION: None known

SKIN CONTACT: Causes severe skin irritation.

INHALATION: High vapor levels cause respiratory irritation

None known.

EYE CONTACT: Causes severe eye irritation.

CHRONIC EFFECTS:

EFFECTS/CARCINOGENICITY: None listed under OSHA, IARC, or NTP.

ROUTES OF ENTRY: Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION	%	ACGIH TLV	OSHA PELs
CAS#			
Ferric Chloride 7705-08-0	33-36	Not applicable	Not applicable
Hydrochloric Acid 7647-01-0	<1.0	Not applicable	Not applicable

4. FIRST AID MEASURES

INGESTION: Call a physician or Poison Control Center immediately. DO NOT INDUCE VOMITING. Drink

one or two glasses of water. Get medical attention. Never give anything by mouth to an

unconscious person.

SKIN: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get

medical attention if irritation persists.

INHALATION: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult,

get immediate medical attention.

EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get

medical attention if irritation persists.

NOTES TO PHYSICIAN: None.

Ferric Chloride

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: (F): Non Flammable (C): Non

Flammable

METHOD: None

FLAMMABLE LIMITS IN AIR

LOWER (%):

UPPER (%):

No data

No data

SENSITIVITY TO MECHANICAL IMPACT(Y/N): NO

SENSITIVITY TO STATIC DISCHARGE: Sensitivity to static discharge is not expected.

SUITABLE EXTINGUISHING MEDIA:

As for surrounding fire. Product will not support combustion.

FIRE FIGHTING PROCEDURES:

Fire-fighters should wear self-contained breathing apparatus and

full protective clothing when fighting chemical fires. Cool exposed containers with water spray. Do not allow solution to evaporate to

dryness.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

SMALL SPILLS: Pick up with absorbant material. Flush residue with water.

LARGE SPILLS: Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush

remainder with water.

PERSONAL PRECAUTIONS: Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal

Protection.

ENVIRONMENTAL PRECAUTIONS: Keep out of drains, sewers, streams, or other bodies of water.

METHODS FOR CLEANING UP: Not applicable

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7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKENIN HANDLING AND STORAGE:

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Corrosive liquid! Do not store in metal containers.

OTHER PRECAUTIONS: Empty containers may retain product residue, follow MSDS/label precautions even after

container is emptied.

SPECIFIC USE(S): Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS: Ensure adequate ventilation, especially in confined areas.

RESPIRATORY PROTECTION:Use approved NIOSH respiratory protection if TLV/PEL exceeded or if over exposure is likely.

Nitrile, neoprene, or other appropriate gloves are recommended to minimize hand skin contact.

EYE PROTECTION: Goggles and face shield are recommended to minimize eye contact.

OTHER PERSONAL PROTECTION Appropriate protective clothing as needed to prevent skin contact. Eyewash fountains and safety showers must be easily accessible. It is the responsibility of the end user of this product

to determine level of PPE required that is consistent with safe use of this product.

VENTILATION: Local exhaust ventilation recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Brown. Liquid. Mild odor.

BOILING POINT (F): 105-110 F **(C)** 220-230 C

VAPOR PRESSURE: Not determined VAPOR DENSITY (AIR=1): Not determined

Ferric Chloride

9. PHYSICAL AND CHEMICAL PROPERTIES

SOLUBILITY IN WATER: Not determined SPECIFIC GRAVITY: 1.26-1.48 VOC Content (%): None

EVAPORATION RATE: Not determined

PH: <2

10. STABILITY AND REACTIVITY

STABILITY DATA: STABLE
POLYMERIZATION: Will Not Occur.

HAZARDOUS DECOMPOSITION: Hydrochloric Acid. If evaporated to dryness, as in a fire, may release: Hydrogen chloride gas.

INCOMPATIBILITY (MATERIALS TO Corrosive to: Cast iron. Stainless steel.

AVOID):

CONDITIONS/HAZARDS TO AVOID: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Not Established EFFECTS OF CHRONIC EXPOSURE: Not established. OTHER TOXIC EFFECTS: Not established.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL No data at this time

INFORMATION:

CHEMICAL FATE INFORMATION:
MOBILITY:
PERSISTENCE/DEGRADABILITY:
BIOACCUMULATIVE POTENTIAL:
OTHER ADVERSE EFFECTS:
No data at this time.
Not applicable.
Not applicable
Not applicable

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose in accordance with Federal, State and Local regulations.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

15. REGULATORY INFORMATION

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
Ferric Chloride 7705-08-0	33-36	Not Listed	Not Listed	Not Listed	Not Listed
Hydrochloric Acid 7647-01-0	<1.0	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Ferric Chloride 7705-08-0	33-36	Not Listed	Not Listed	Not Listed
Hydrochloric Acid 7647-01-0	<1.0	2270 kg 5000 lb	5000 lb RQ = 500 lb TPQ gas only	= 1.0 % de minimis concentration acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size

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PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Hydrochloric Acid 7647-01-0	<1.0	Listed

The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	MARTK:
Hydrochloric Acid 7647-01-0	<1.0	Listed

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	NJRTK:
Hydrochloric Acid 7647-01-0	<1.0	Listed

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable

PRODUCT COMPOSITION CAS#	%	PARTK:
Hydrochloric Acid 7647-01-0	<1.0	Listed

16. OTHER INFORMATION

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

*** END OF MSDS ***