



11800 Wills Road, Suite 100
Alpharetta, GA 30009
Tel: 678-514-2100 / 888-326-2020
Web Site: www.EcologixSystems.com

MATERIAL SAFETY DATA SHEET

Ecologix Environmental Systems, LLC 11800 Wills Road, Suite 100 Alpharetta, GA 30009 USA Phone: 678-514-2100 - Fax: 678-514-2106	Emergency Telephone Number: ECOLOGIX 1-888-326-2020 DATE OF ISSUE: 01/10/01 DATE OF LATEST REVISION: 12/10/06
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SECTION I: IDENTIFICATION & PRODUCT INFORMATION

TRADE NAME: CIFCB

CHEMICAL NAME: Proprietary Blend of Inorganic Coagulants

CHEMICAL FAMILY: Industrial Water Conditioner

SECTION II: COMPOSITION, INFORMATION ON INGREDIENTS

Material	CAS#	%	EXPOSURE LIMIT
Ferric Chloride	7705-08-0	>50	TWA - 1mg/m3 as soluble iron

Other substances non-hazardous per OSHA communication standard may be included. Precise mixture is propriety.

SECTION III: PHYSICAL DATA

Boiling Point (F): >.212F	Specific Gravity: 1.41
Viscosityby Volume (%) NA	
Vapor Pressure: NA	Evap. Rate (water = 1): >1
Solubility in Water: Complete	pH: <2.1
Appearance and Odor: Reddish brown liquid, slight iron/acid odor.	

SECTION IV: FIRE PROTECTION INFORMATION

Flash Point (method used):	Not Applicable, Aqueous System
Flammable Limits:	Not Applicable, Aqueous System
Extinguishing Media:	Use water fog, foam, spray, dry chemical or CO2 or any other agents

appropriate for surrounding fire.
Special Fire-Fighting Procedures: Use self-contained breathing apparatus and protective clothing while extinguishing a fire.

Unusual Fire and Explosion Hazards Product is nonflammable as supplied. May form hazardous by-products when in fire (hydrogen chloride gas at elevated temperatures).

National Fire Protection Association (NFPA) Rating (in fire conditions):

Toxicity: 1 Fire: 0 Reactivity: 0 Special: None

Hazard Rating: 4=extreme 3=high 2=moderate 1=slight 0=insignificant

SECTION V: HEALTH HAZARDS INFORMATION

EFFECTS OF SINGLE OVEREXPOSURE:

DANGER - CORROSIVE

Inhalation: If breathed as mist or dust - Material can cause irritation to respiratory system.

Skin Contact: Contact may cause severe burns and destroy tissue. Severity is generally determined by concentration of solution and duration of contact.

Swallowing: May cause severe liver/kidney damage, may be fatal. Causes severe burns to mucous membranes of mouth, throat and intestinal tract.

Eye Contact: Cause severe burns that result in damage to eyes and possibly blindness.

Effects of repeated overexposure (chronic): No known chronic health effects. Not a known or suspected Carcinogen.

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING: If swallowed obtain immediate medical attention without delay.

SKIN: Immediately remove contaminated clothing and shoes. Wash skin with soap and water. Obtain medical attention if an irritation persists. Wash clothing before reuse.

INHALATION: Remove to fresh air. Obtain medical attention immediately if effected person has difficulty breathing.

EYES: Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain immediate medical attention without delay.

FOR EMERGENCY INFORMATION: CALL CHEMTREC - 1 (800) 424-9300

SECTION VI: REACTIVITY DATA

Stable: Yes Hazardous Polymerization: Will not occur.

Conditions to Avoid: Strong oxidizers may react with product. Do not mix strong alkalies and alkali metals.

Materials to Avoid: Material is stable when handled properly. Material is acidic and corrodes most metals. Product is not compatible with Alkalies. Strong oxidizing agents and Alkaline materials. Avoid contact with aluminum, tin, zinc, iron and alloys containing these metals. Product may react with certain acids, aldehydes and many other organic chemicals.

Hazardous Decomposition Products: Thermal decomposition may produce hydrogen chloride gas.

SECTION VII: SPILL OR LEAK PROCEDURES AND WASTE DISPOSAL

Spill or Leak Procedures:

If spilled, neutralize with soda or lime. Neutralization requires good ventilation because of generation of carbon dioxide. Dike spills for recovery with absorbent material. Wash spill area with large amounts of clear water. All cleanup material should be properly disposed of.

Waste Disposal:

Product qualifies as a RCRA Hazardous Waste due to characteristic of Corrosivity (D002). Landfill or incinerate. Dispose of in accordance with local, state and federal regulations.

SECTION VIII: OCCUPATIONAL PROTECTIVE EQUIPMENT

Eye: Chemical goggles, safety glasses. Face shield if splashing likely.

Respiratory: None required if good ventilation is maintained. If mists or dusts encountered wear dust mist apparatus.

Skin: Rubber, Nitrile (NBR), Butyl or Polyethylene gloves. Rubber apron and boots if splashing likely.

Other: Eye bath and safety shower.

SECTION IX: PRECAUTIONARY MEASURES

Store in cool, dry place. Avoid skin and eye contact. DO NOT TAKE INTERNALLY. Keep container closed when not in use. Wash thoroughly after handling.

SECTION X: REGULATORY INFORMATION

CERCLA: Ferric Chloride/1000lb. RQ

SARA TITLE III:

Sec. 313 Toxic Chemical Release: Yes

Sec. 302-304: Extremely Hazardous Substances: None

Sec. 311-312: Inventory Reporting - Hazardous Category: Immediate health (acute)

TSCA: Ingredients of this product are on TSCA inventory.

SECTION XI: TRANSPORTATION

DOT Classification: Corrosive liquid, acidic, inorganic n.o.s., (contains ferric chloride), 8, UN3264, PG III

MSDSC05

12/00

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