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DATE OF ISSUE: 05/12/2003

DATE OF LATEST REVISION: 12/12/2010

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: CIFSB
PRIMARY FUNCTION: Coagulant
CHEMICAL FAMILY: Inorganic salts
CHEMICAL NAME: Iron (III) Sulfate

MANUFACTURER: Ecologix Environmental Systems, LLC
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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>(CAS #)</u>	<u>%WT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OTHER</u>
Hydroxy ferric sulfate	127687-53-0	<50		1mg/m ³ TWA	

Other components may be blended in this formulation. The precise composition is proprietary. Bona fide requests for disclosure to medical personnel must be made in accordance with the procedures in 29 CFR 1910.1200(i) 1-13. This MSDS contains valuable information critical to the safe handling and proper use of the product and should be retained and available for employees and other users of this product. This material is classified as hazardous under OSHA regulations.

SECTION 3: HAZARDS IDENTIFICATION

EYES: May cause pain and is corrosive. May cause burns to inner eyelids.
SKIN: May cause skin irritation. Prolonged contact may cause dermatitis and burns.
INGESTION: May produce mild to moderately severe oral and esophageal burns, with mild to severe stomach burns.
INHALATION: Mist or spray may be irritating to mucous membranes, respiratory tract and lung tissues.

SECTION 4: FIRST AID MEASURES

EYES: Flush eyes gently with water for at least 15 minutes while holding eyelids apart. Seek medical attention immediately.
SKIN: Remove contaminated clothing and wash with soap and water for at least 15 minutes. Seek medical attention.
INGESTION: Immediately rinse mouth with water. **Do not induce vomiting.** Do not give bicarbonate to neutralize. Drink milk or water to dilute. If vomiting occurs, drink more liquids. Seek medical attention.
INHALATION: Remove to fresh air. Give oxygen/artificial respiration if needed. Seek medical attention for breathing difficulty.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: N/A

EXTINGUISHING MEDIA: Any appropriate. Respiratory and eye protection required.

SPECIAL FIRE FIGHTING PROCEDURES: Dike area to prevent runoff and contamination of water sources.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Sulfuric acid could react with metals to produce hydrogen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Wear appropriate personal protective equipment. Neutralize with lime, limestone or soda ash.

LARGE SPILLS: Dike the spilled liquid and collect residues for proper disposal. Neutralize with lime, limestone or soda ash. This will generate carbon dioxide, so additional ventilation may be necessary. Notify appropriate authorities.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state and federal regulations.

SECTION 7: HANDLING and STORAGE

HANDLING AND STORAGE: Protect drum from damage, freezing and intense heat. Keep containers closed and away from light. Do not store in metal containers which will dissolve and generate hydrogen.

OTHER PRECAUTIONS: Do not swallow. Wear protective eye goggles, gloves, boots and clothing.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

EYE PROTECTION: Wear chemical splash-proof goggles.

PROTECTIVE GLOVES: Wear rubber gloves, apron and shoe covers.

RESPIRATORY PROTECTION: If vapors or mists excessive, wear a NIOSH/MSHA approved respirator with mist prefilter.

VENTILATION: Always store and use all chemicals in well ventilated areas.

OTHER PROTECTIVE EQUIPMENT: Provide eye wash and safety shower stations.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT: 220° - 230°F

SPECIFIC GRAVITY: 1.35 – 1.55

EVAPORATION RATE: N/A

VAPOR DENSITY: N/A

VAPOR PRESSURE: N/A

SOLUBILITY IN WATER: Infinite below pH 2. Above pH 3, reddish ferric hydroxide precipitates.

pH of NEAT SOLUTION: <1

APPEARANCE/ODOR: Reddish brown solution; little or no odor.

SECTION 10: STABILITY & REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY (MATERIALS TO AVOID): Fairly corrosive to mild steel. Avoid contact with bases or alkalies.

HAZARDOUS DECOMPOSITION PRODUCTS: Produces sulfur oxides

SECTION 11: TOXICOLOGICAL INFORMATION

CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None noted.

SPECIAL NOTE: None of the components in this product are considered a carcinogen by OSHA, NTP or IARC.

SECTION 12: ECOLOGICAL INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, and local environmental laws.

SECTION 14: TRANSPORT INFORMATION

DOT Proper Shipping Name: Corrosive Liquid, acidic, inorganic, n.o.s. (contains ferric sulfate), 8, UN 3264, Pg III

SECTION 15: REGULATORY INFORMATION

FEDERAL EPA

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA):

Requires notification to the National Response Center of releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ) in 40 CFR 302.4. Components present in this product at a level which would require reporting under the statute are:

<u>Chemical</u>	<u>CAS Number</u>	<u>RQ</u>
NONE		

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III:

Requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQ) in 40 CFR 355 (SARA 302, 304, 311 and 312) Components present in this product at a level which could require reporting under the statute are: NONE

Toxic Substances Control Act (TSCA) Status:

All components of this product are on the TSCA inventory

EPA Priority Pollutants: NONE

RCRA Hazard Class: If discarded - non-hazardous.

SECTION 16: OTHER INFORMATION

HMIS RATINGS: Health=, Flammability=, Reactivity=
HMIS HAZARD INDEX: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

LEGEND:

CAS Chemical Abstract Number
CERCLA Comprehensive Environmental Response, Compensation and Liability Act
CFR Code of Federal Regulations
DOT Department of Transportation
HMIS Hazardous Materials Identification System
IARC International Agency for Research on Cancer
MSDS Material Safety Data Sheet
N/A Not Applicable
N/D Not Determined

NTP National Toxicity Program
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
SARA Superfund Amendments and Reauthorization Act
TSCA Toxic Substance Control Act
TLV Threshold Limit Value

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. Users are responsible to determine the suitability of this product and to evaluate risks prior to use.