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MATERIAL SAFETY DATA SHEET

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SECTION 1: PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAME: CIASB-1

PRIMARY FUNCTION: COAGULANT

CHEMICAL FAMILY: BLEND INORGANIC/ORGANIC

CHEMICAL NAME: BLEND INORGANIC/ORGANIC

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>STEL</u>		
Aluminum Sulfate	10043-01-3	>50	2 mg/m ³ (solid)
2 mg/m ³ (solid)	N/A		

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.

SECTION 3: HAZARDS IDENTIFICATION

EYES: May cause irritation and inflammation .

SKIN: Prolonged contact with skin may cause irritation or burns.

INGESTION: See Section 4 below.

INHALATION: Mist or spray may cause irritation of the mucous membrane and respiratory tract.

SECTION 4: FIRST AID MEASURES

EYES: Flush eyes gently with water for at least 15 minutes while holding eyelids apart. Seek medical attention.

SKIN: Remove contaminated clothing and shoes and flush affected area with water for at least 15 minutes. Wash with soap and water. If irritation persists seek medical attention. Wash or discard contaminated clothing and shoes

MSDS: PRODUCT NAME: CIASB-1

INGESTION: Immediately rinse mouth with water. Do not induce vomiting. Slowly drink milk or water to dilute. If vomiting occurs, drink more liquids. Seek medical attention

INHALATION: If respiratory distress occurs, get into fresh air and, if needed, administer oxygen and start CPR. Seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: N/A

EXTINGUISHING MEDIA: Not combustible. Use appropriate extinguishing media for material that is supplying fuel. Use water spray to cool the surrounding area and to maintain fire temperature below decomposition temperature.

SPECIAL FIRE FIGHTING PROCEDURES: Wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff and contamination of water sources.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Under fire conditions greater than 650°C (1202°F), product decomposes to give off sulfur trioxide, an oxidizing agent that will support combustion. Sulfur trioxide will react with water to form sulfuric acid.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILLS: Dike the spilled liquid, and either pump into original container or cover with clay-type substance for absorption.

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.

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

SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

EYE PROTECTION: Wear chemical splash-proof safety goggles

PROTECTIVE GLOVES: Wear rubber gloves.

RESPIRATORY PROTECTION: Where the exposure limits are or may be exceeded, use a NIOSH/MSHA approved respirator for acid dusts. Use positive pressure supplied air or self-contained breathing apparatus for emergency or other conditions where a higher level of protection is required.

VENTILATION: Always store and use all chemicals in well ventilated areas. Use local exhaust as needed to maintain airborne exposure below control limits.

OTHER PROTECTIVE EQUIPMENT: Wear protective long-sleeved clothing and rubber boots. Provide eye wash and safety shower stations.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

BOILING POINT: 213° F

SPECIFIC GRAVITY: 1.290 – 1.310

EVAPORATION RATE: (Water=1) <1

VAPOR DENSITY: N/A

VAPOR PRESSURE: N/A

SOLUBILITY IN WATER: Complete

pH of NEAT SOLUTION: <2.0

APPEARANCE/ODOR: Pale blue clear/hazy liquid; mild odor
MSDS: PRODUCT NAME: CIASB-1

SECTION 10: STABILITY and REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will Not Occur
INCOMPATIBILITY (MATERIALS TO AVOID): Alkalies
HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur trioxide and sulfur dioxide

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 aluminum sulfate solution), 8, UN3264, 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=1, Flammability=0, Reactivity=1

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.