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MATERIAL SAFETY DATA SHEET

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SECTION I: IDENTIFICATION & PRODUCT INFORMATION

TRADE NAME: CIACH
CHEMICAL NAME: Proprietary Blend of Inorganic Coagulants
CHEMICAL FAMILY: Industrial Water Conditioner

SECTION II: COMPOSITION, INFORMATION ON INGREDIENTS

Material	CAS#	%	EXPOSURE LIMIT
Aluminum Chlorohydrate	12042-91-0	<60	Unknown

Precise mixture is proprietary.

SECTION III: PHYSICAL DATA

Boiling Point:	≈ 220°F	Specific Gravity:	1.33
Viscosity:	< 50 CPS	pH:	3.5 (as is)
Vapor Pressure:	NA	Evap. Rate:	NA
Solubility in Water:	Complete	Freezing Point:	≈19°F

Appearance and Odor: Clear Slightly Yellow liquid, slight odor

SECTION IV: FIRE PROTECTION INFORMATION

Flash Point (method used): Non-flammable
Flammable Limits: Not Applicable, Aqueous System
Extinguishing Media: Non-flammable (aqueous solution)
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.

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

Exposure Limit(s): Not established

EFFECTS OF SINGLE OVEREXPOSURE:

Inhalation: Material can cause irritation to respiratory system.

Skin Contact: May cause skin irritation, especially on prolonged contact.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Eye Contact: Direct contact may cause irritation, swelling and redness. Effects of repeated contact with the eyes may result in conjunctivitis.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: Seek medical attention immediately. Give large amounts of water to drink. If vomiting should occur spontaneously, keep airway clear.

SKIN: Immediately remove contaminated clothing and shoes. Wash skin with soap and water. Obtain medical attention if an irritation persists. Wash clothing before reuse. Discard contaminated leather articles such as shoes and belt.

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, holding eyelids apart to ensure flushing of the entire surface.. 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. Caustic will precipitate Aluminum Hydroxide.

Materials to Avoid: Strong oxidizing agents and alkaline materials.

Hazardous Decomposition Products: Thermal decomposition may release toxic and/or hazardous gases such as aluminum, CL₂ and HCL.

SECTION VII: SPILL OR LEAK PROCEDURES AND WASTE DISPOSAL

Stop leaks immediately. Clean up spills immediately.

If spilled, neutralize with soda ash. Dike spills for recovery with absorbent material. Wash spill area with large amounts of clear water. Soap may precipitate Aluminum Hydroxide. Wear face shield, boots and rubber apron if spilled. Material may be slippery.

Waste Disposal:

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: None

SARA TITLE III:

Sec. 313 Toxic Chemical Release: None

Sec. 302-304: Extremely hazardous Substances: None

TSCA: Ingredients of this product are on TSCA inventory.

SECTION XI: TRANSPORTATION

DOT Classification: Not regulated

MSDS CIACH

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