

AQUAPURE™ ICX

Revised: 4/23/21

1 IDENTIFICATION

Product Name: AQUAPURE™ ICX

Product Code :2601013

Recommended use of the chemical and restrictions on use:Industrial Wastewater Treatment

Hubbard-Hall Inc.

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Waterbury, CT 06708

Telephone: 203-756-5521

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Emergency Phone Number

CHEMTREC: 1 (800) 424-9300

International: 1 (703) 527-3887

2 HAZARDS IDENTIFICATION



Signal Word: DANGER

Hazard Category: Corrosive to Metals Hazard Category 1

Acute Toxicity-Oral Hazard Category 4

Skin Corrosion/Irritation Hazard Category 2

Eye Damage/Irritation Hazard Category 1

Acute Aquatic Toxicity-Category 2

Sensitization-Skin Hazard Category 1B

Hazard Statements: May be corrosive to metals.

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

Toxic to aquatic life

May cause an allergic skin reaction.

Prevention: Keep only in original container.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid releases to the environment

Wear rubber gloves, goggles and chemical protective clothing.

Response: If swallowed: Call poison center, if you feel unwell.

Rinse Mouth.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call poison center or doctor and explain the type of exposure to the chemical(s) and provide the name of the chemical(s).

If skin irritation or rash occurs, get medical advice/attention.

Take off immediately all contaminated clothing and wash it before reuse.

Absorb spillage to prevent material damage.

Storage: Store in corrosive resistant high density polyethylene container.

Disposal: Dispose of contents/container in accordance with local, regional, national, or international regulations.

3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
Ferric Chloride	Iron(III) Chloride	7705-08-0	Approx 10%
Aluminum Chloride	-	7446-70-0	~6%
Calcium Chloride	-	10043-52-4	~8%

4 FIRST AID

After Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one way valve or other proper respiratory device. Call a physician or poison control center immediately.

After Skin Contact:

Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately! Wash clothing separately before reuse. Destroy or thoroughly clean all contaminated shoes.

After Eye Contact:

Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Call a physician or poison control center immediately.

After Ingestion:

DO NOT induce vomiting. Immediately give large quantities of water or milk, if available. If vomiting does occur, give fluids again. Never give anything by mouth to an unconscious person. Call a physician or the nearest Poison Control Center.

Most Important Symptoms/Effects

Inhalation:

May give off vapor, gas or dust that is very irritating or corrosive to the respiratory system.

Eye:

Severe eye and or skin irritation or burns.

Skin:

Causes severe skin burns

Skin:

May cause an allergic skin reaction.

Ingestion:

Harmful if swallowed. May cause burns to mouth, throat and stomach.

Indication of immediate medical attention:

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Keep victim under observation.

5 FIRE FIGHTING MEASURES

- Suitable and Unsuitable extinguishing media:** Will not burn or support combustion. Use extinguishing media appropriate for surrounding fire, such as water spray, dry chemical, foam or carbon dioxide.
- Specific hazards arising from the chemical:** Heat and fire may result in the release of corrosive fumes.
- Special protective equipment and precautions for firefighter** Fire fighters should enter area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surfaces should be exposed.

6 ACCIDENTAL RELEASE MEASURES

- Methods and Materials for containment & cleaning up:** If OSHA trained: dam spills if possible; then neutralize spill with soda ash or lime. Flush with water to a chemical sewer or disposal system. This neutralization procedure should be conducted with good ventilation. Discharge to a disposal system. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

7 HANDLING AND STORAGE

- Precautions for safe handling:**
 - Wear rubber gloves, goggles and chemical protective clothing.
 - Do not get in eyes, or on skin, or on clothing.
 - Eating, drinking and smoking in the work area is prohibited.
 - Keep only in original container .
- Conditions for safe storage, inc any incompatibilities:**
 - Store in corrosive resistant container.
 - Store locked up.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std.	TWA-8hrs	STEL - 15 min.
Ferric Chloride	ACGIH	1 mg/m3 as Fe	
Aluminum Chloride	NIOSH	2 mg/m3	-
Calcium Chloride	ACGIH	10 mg/m3 as nuisance dust	-

ACGIH - American Control of Governmental Hygenists
OSHA - Occupational Safety and Health Administration

- Ventilation:** Use local exhaust to keep personal exposures below the OSHA Permissible Exposure Limit (s) (PEL) or the ACGIH threshold Limit Values (TLV)Time Weight Average (TWA).
- Respiratory Protection:** A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI 788.2 or applicable federal requirements must be followed whenever work place conditions warrant respirator use. NIOSH's Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.
- Protective Gloves:** Acid resistant rubber.
- Eye Protection:** Wear chemical safety goggles.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Dark amber to greenish liquid

Odor:	Mild acidic odor
Odor Threshold:	N/A
PH:	4-7
Melting Point/Freezing Point:	N/A
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	None
Evaporation Rate:	N/A
Flammability (solid, gas):	N/A
Upper/Lower flammability or explosive limits:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Relative Density:	1.347
Solubility (ies):	Complete in water
Partition Coefficient; n-octanol/water:	N/A
Auto-ignition Temperature:	N/A
Decomposition Temperature:	N/A
Viscosity:	N/A

10 STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Contact with incompatible materials
Incompatible Materials:	Strong oxidizing agents. Metals and Alkalis.

11 TOXICOLOGICAL INFORMATION

Oral Administration:	Ferric Chloride-LD50(Rat)-316 mg/kg
Oral Administration:	Aluminum Chloride-LD50(Rat)-3700 mg/kg
Oral Administration:	Calcium Chloride-LD50(Rat)-2301 mg/kg
Irritation:	Severe irritation or burns to skin, eyes and respiratory system
Delayed effects:	NA
Immediate effects:	Severe irritation or burns to skin, eyes and respiratory system
Cancer Hazard:	Not listed by IARC, NTP, OSHA, ACGIH
Routes of Exposure	Eyes, Skin, Inhalation, Ingestion

12 ECOLOGICAL INFORMATION

Lepomis macrochirus,	Ferric Chloride-LC50-20.26 mg/L-96 h
Daphnia Magna,	Ferric ChlorideEC50-9600 ug/l 48 h
Persistence and Degradability:	Not Available
Biotic degradability:	No data available
Water result:	Disperses in water.
Soil/Sediment Result:	No data available

13 DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulations.

14 TRANSPORT INFORMATION

UN Number: 3264
UN Proper Shipping Name: CORROSIVE LIQUID,ACIDIC,INORGANIC NOS(FERRIC CHLORIDE)
Transport Hazard Class (es): 8
Packing Group: III
ERG: 154

15 REGULATORY INFORMATION

HMIS: Health: 2 Flammability: 0 Reactivity: 1

Cercla Ferric Chloride RQ=1000 lbs

Sara Hazard Classification The chemicals in this product are not subject to SARA Title III , Section 313 Reporting Requirements.

Proposition 65 No Proposition 65 listed components in this formula

TSCA Inventory Status All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements .

16 OTHER INFORMATION

Disclaimer: The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.