



Safety Data Sheet

1 – PRODUCT IDENTIFICATION

PRODUCT NAME:.....**Betterclear**

PRODUCT NUMBER:Betterclear

DESCRIPTION:Cooling Water Treatment

OTHER MEANS OF IDENTIFICATION:Liquid, clear, colorless to amber liquid. UN 1760.

RECOMMENDED USE:Water treatment chemical.

RESTRICTIONS ON USE:Use only as directed.

COMPANY:..... CHEMTRON CORPORATION

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St. Charles, MO 63301

636-940-5445 (Mon-Fri., 8:00-4:00)

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EMERGENCY PHONE:(800) 424-9300 (CHEMTREC)

REVISION DATE:.....January 5, 2018

2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:.....Liquid, clear, colorless to amber liquid. Odor is negligible. Contact causes serious eye irritation. Harmful if inhaled as mist. Contains a trace of NTA, a suspected carcinogen.

CLASSIFICATION:Product is hazardous by OSHA criteria.

Eye irritant.....category 2

Corrosive to metals.....category 1



SIGNAL WORD: **Warning**

HAZARD STATEMENTS:Causes eye irritation. May be corrosive to metals.

PRECAUTIONARY STATEMENTS: Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and eye protection. Keep only in original container. If on skin: wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Store in corrosive resistant plastic FRP container or container with corrosive resistant inner liner. Dispose in accordance with all applicable regulations. Subject to disposal regulations: US EPA 40 CFR 262. Hazardous Waste number(s): May be D002 under §261.22(a)(2) due to the rate of corrosion of metal.



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3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Aluminum Chloride Hydroxide Sulfate	15-45	39290-78-3

The exact percent by weight of the ingredients in this formulation is proprietary.

4 – FIRST-AID MEASURES

BREATHING (INHALATION):..(Mist or spray) Remove from exposure; seek medical treatment if symptoms occur.

SWALLOWING (INGESTION):..If conscious give large amounts of water. Seek medical attention immediately.

EYES:.....Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. If eye irritation persists, get immediate medical advice/attention.

SKIN (DERMAL):Wash with plenty of water. Take off contaminated clothing.

ACUTE SYMPTOMS:.....May cause serious eye damage. May cause skin irritation.

IMMEDIATE OR SPECIAL TREATMENT:Treat symptomatically.

5 – FIRE-FIGHTING MEASURES

FLASHPOINT:.....Does not flash.

EXTINGUISHING MEDIA:.....Use extinguishing measures that are appropriate to local circumstances and surrounding environment. No unsuitable extinguishing media.

SPECIAL FIRE FIGHTING PROCEDURES:Negligible fire hazard. Decomposition products may be toxic. Hazardous decomposition products: Hydrogen Chloride and Sulfur Dioxide. As in any fire wear a self contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not release run off from fire control methods to sewers or waterways.

6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:.....Do not release into sewers or waterways. See section 12 for additional ecological information. Prevent further leakage or spillage if safe to do so. Small spills: If directed to an industrial sewer, wash down with large volume of water. Spills can be neutralized and absorbed with soda ash or lime, but neutralization will release carbon dioxide, which can generate a breathing hazard. For large spills, dike far ahead of spill for later disposal. Contain large spills and pump into suitable tank for disposal. Neutralize with soda ash or lime if necessary. Adequate ventilation is required due to release of carbon dioxide.

PERSONAL PRECAUTIONS:....Use personal protection recommended in section 8. Keep unnecessary people away, isolate hazard area and restrict entry.



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7 – HANDLING and STORAGE

STORAGE:Keep containers tightly closed in a dry, cool and well-ventilated area. Keep storage temperature below 30 (C)/86(F). Store away from incompatible materials. Keep only in original container.

HANDLING:.....Ensure that all containers are labeled in accordance with OSHA regulations. Treat as a dilute acid. Avoid contact with metal, as product will slowly corrode iron, brass, copper, aluminum and mild steel. Avoid contact with skin and eyes. Use personal protection recommended in Section 8. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray.

INCOMPATIBLE MATERIALS Metals such as aluminum, tin, and zinc. Strong Alkali's.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:Exposure limits for the product are not established.

PROTECTIVE CLOTHING:Chemical goggles, face shield, always wear eye protection when working with any chemical. Impervious gloves, clean body covering, rubber apron, rubber boots

ADDITIONAL MEASURES:.....General exhaust ventilation is adequate. Employ work practices and product transfer practices that avoid spills, drips, or contact with incompatible material. **WARNING:** Air-purifying respirators do not protect workers in oxygen deficient atmospheres. Do not eat, drink, smoke or apply cosmetics while handling this chemical. Wash hands before and after use.

9 – PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE:Liquid, clear, colorless to amber liquid.

ODOR:Negligible

VAPOR PRESSURE:.....Similar to water

VAPOR DENSITY (AIR=1):Similar to water

SPECIFIC GRAVITY:1.1-1.3

pH:2-3.5

SOLUBILITY IN WATER:Completely miscible in water.

FLAMMABILITY:Not Flammable

EVAPORATION RATE:.....Similar to water

MELTING POINT/FREEZING POINT: < 4° C

10 – STABILITY and REACTIVITY

REACTIVITY:Not reactive under normal conditions.

STABILITY:.....Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION:Hazardous Polymerization will not occur.

INCOMPATIBILITY:.....Strong Alkali's (base). Metals such as Aluminum, tin, and zinc.

HAZARDOUS REACTIONS:Reacts with aluminum and zinc to form Hydrogen gas. Contact with strong Alkali's (e.g. Ammonia and its solutions, Sodium Hydroxide, Potassium Hydroxide and chlorites) may generate heat, splattering or boiling and toxic vapors.

HAZARDOUS DECOMP:Hydrogen Chloride and Sulfur Dioxide.



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11 – TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:Eye or skin contact.

TOXICOLOGICAL CHARACTERISTICS:Causes serious eye irritation. Avoid contact with skin. Avoid breathing vapors or mist. Do not taste or swallow. For symptoms see section 4 of this SDS.

DELAYED EFFECTS:This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, NTP.

NUMERICAL MEASURES OF TOXICITY:No toxicology available on the formulated product.

12 – ECOLOGICAL INFORMATION

ECOTOXICITY:

Chemical Name	Betterclear	Fish		
Ceriodaphnia Dubia		48hr	LC50	3484 mg/l
Fathead Minnow		96hr	LC 50	9800 mg/l

PERSISTENCE AND DEGRADABILITY:Not Determined

BIOACCUMULATIVE POTENTIAL:Not Determined.

OTHER ADVERSE EFFECTS:Not Determined

13 –DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:Disposal should be in accordance with applicable regional, national, and local laws and regulations. Subject to disposal regulations: US EPA 40 CFR 262. Hazardous waste number(s): May be D002 under §261.22(a)(2) due to the rate of corrosion of metal.

14 – TRANSPORTATION INFORMATION

UN/ID NO:UN1760

PROPER SHIPPING NAME:.....Corrosive Liquid, n.o.s. (Aluminum chloride hydroxide sulfate)

HAZARD CLASS:8

PACKAGING GROUP:.....III

15 - REGULATIONS

INTERNATIONAL INVENTORIES:.....Not determined

COMPONENT ANALYSIS:None of this products components are listed under SARA section 302 (40 CFR 355 Appendix A), SARA section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4)



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SARA 311/312 HEALTH HAZARDS:Acute Health Hazard: Yes. Chronic Health Hazard: No. Fire Hazard: No. Sudden release of pressure hazard: No. Reactive Hazard: No.

SARA 313.....Not Listed

16 – OTHER INFORMATION

NFPA HAZARD RANKING

HEALTH	FIRE	REACTIVITY	SPECIAL
1	0	0	none

HMS HAZARD RANKING

HEALTH	FIRE	REACTIVITY	PPE
1	0	0	n & p or X (defined below)

- n - splash goggles
- p - gloves
- X - consult supervisor

This data is offered in good faith and believed to be accurate, but it is for the users to satisfy themselves of the product suitability for their own purpose. There is no warranty expressed or implied. The recommended hygiene and safe handling procedures are believed to be generally applicable.