

SAFETY DATA SHEET

HYDRICLEAR 1002
Product ID: WT1002
Revised: 06-27-2014
Replaces: 07-20-2011

1. IDENTIFICATION

Product Name: HYDRICLEAR 1002
Synonyms: O-95733
CAS Number: MIXTURE
Recommended Use: No data available.
Restrictions on Use: No data available.

Hydrite Chemical Co.
300 N. Patrick Blvd.
Brookfield, WI 53008-0948
(262) 792-1450

EMERGENCY RESPONSE NUMBERS:
24 Hour Emergency #: (414) 277-1311
CHEMTREC Emergency #: (800) 424-9300

2. HAZARD(S) IDENTIFICATION



Signal Word: Danger

GHS Classification: Skin Corrosion/Irritation Category 1C
Serious Eye Damage/Eye Irritation Category 1
Acute Toxicity - Oral Category 4

Hazard Statements: Harmful if swallowed.
Causes severe skin burns and eye damage.

Precautionary Statements:

Prevention: Do not breathe dust, fume, gas, mist, vapors or spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear gloves, eye and face protection and protective clothing.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
Specific treatment (see First Aid on SDS or on this label).
Wash contaminated clothing before reuse.

Storage: Store in a secure manner.

Disposal: Dispose of in accordance with local, regional and international regulations.

Hazards Not Otherwise Classified: None known.

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Percentage of Components with Unknown Acute Toxicity:

Dermal: 30.0 %
Inhalation Vapor: 30.0 %
Inhalation Dust/Mist: 30.0 %

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>% by Wt.</u>
Aluminum Chloride	7446-70-0	< 35 %

4. FIRST-AID MEASURES

Eye Contact: If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

Skin Contact: If on skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reuse clothing and shoes until cleaned.

Inhalation: If inhaled: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

Ingestion: If swallowed: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Give large quantities of water, then an antacid.

Most Important Symptoms/Effects:

Eye Contact: CORROSIVE-Causes severe irritation and burns. May cause: eye damage. blindness.

Skin Contact: May be corrosive to the skin. Severe irritation and burns may result. Contact may cause: drying, cracking. Repeated exposure may cause: dermatitis (inflammation of the skin).

Skin Absorption: No data available.

Inhalation: Causes: coughing, burning, choking, inflammation of the mucous membranes. May cause: ulcerations.

Ingestion: CORROSIVE-Causes severe irritation and burns. Causes burns of the: mucous membranes, mouth, esophagus, stomach. May cause: difficulty swallowing, difficulty in breathing.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use agent suitable for surrounding fire. Will not burn.

Fire Fighting Methods: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers and disperse vapors. If container is not properly cooled, it can rupture in the heat of a fire.

Fire and Explosion Hazards: Product may react with some metals (ex.: Aluminum, Zinc, Tin, etc.) to release flammable hydrogen gas.

Hazardous Combustion Products: Hydrochloric acid. Hydrogen gas.

6. ACCIDENTAL RELEASE MEASURES

Spill Clean-Up Procedures: CORROSIVE MATERIAL. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Contain spill, place into drums for proper disposal. Neutralize spill with lime or soda ash. Adequate ventilation is required if soda ash or limestone is used, because of the consequent release

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of carbon dioxide gas. Soak up residue with inert absorbent material. Place in non-leaking containers for immediate disposal. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling.

Storage: CORROSIVE MATERIAL. Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. May react with certain metals to produce flammable hydrogen gas. Keep away from heat, sparks, and flames. See Section 10 for incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
No components found.	

ACGIH Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
Aluminum Chloride	Soluble salts, as Al: 2 mg/m3

Note:

** OSHA Exposure Limits for Aluminum metal (as Al): 15 mg/m3 total dust; 5 mg/m3 respirable fraction.

Engineering Controls: General room ventilation is required. To keep exposure below established limits, local exhaust may be necessary.

Eye/Face Protection: Wear chemical safety goggles while handling this product. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material.

Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Impervious.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. If exposure limits are exceeded, wear: NIOSH-Approved air-purifying respirator with: Dust/mist filter. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

Other Protective Equipment: Eye-wash station. Safety shower. Protective clothing. Chemical safety shoes.

General Hygiene Conditions: Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.

Color: Yellow.

Odor: No odor.

Odor Threshold: N.D.

pH: < 1.00

Freezing Point (deg. F): N.D.

Melting Point (deg. F): -30

Initial Boiling Point or Boiling Range: 230 °F

Flash Point: N.A.

Flash Point Method: N.A.

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Evaporation Rate (nBuAc = 1): N.D.
Flammability (solid, gas): N.D.
Lower Explosion Limit: N.A.
Upper Explosion Limit: N.A.
Vapor Pressure (mm Hg): N.A.
Vapor Density (air=1): N.D.
Specific Gravity or Relative Density: 1.28
Solubility in Water: Complete
Partition Coefficient (n-octanol/water): N.D.
Autoignition Temperature: N.A.
Decomposition Temperature: N.D.
Viscosity: N.D.
% Volatile (wt%): N.D.
VOC (wt%): N.D.
VOC (lbs/gal): N.D.
Fire Point: N.D.

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur under normal conditions. May react with certain metals to produce flammable hydrogen gas.

Conditions to Avoid: Avoid excessive heat and open flames.

Incompatible Materials: Metals. Alkalies.

Hazardous Decomposition Products: Hydrochloric acid. Hydrogen gas. Toxic vapors.

11. TOXICOLOGICAL INFORMATION

<u>Component</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Aluminum Chloride	Rat: 380 mg/kg	No Data	No Data

Acute Toxicity Estimate (ATE):

Oral: 1,267 mg/kg

Routes of Exposure: Eyes. Ingestion. Inhalation. Skin.

Eye Contact: CORROSIVE-Causes severe irritation and burns. May cause: eye damage. blindness.

Skin Contact: May be corrosive to the skin. Severe irritation and burns may result. Contact may cause: drying. cracking. Repeated exposure may cause: dermatitis (inflammation of the skin).

Skin Absorption: No data available.

Inhalation: Causes: coughing. burning. choking. inflammation of the mucous membranes. May cause: ulcerations.

Ingestion: CORROSIVE-Causes severe irritation and burns. Causes burns of the: mucous membranes. mouth. esophagus. stomach. May cause: difficulty swallowing. difficulty in breathing.

Medical Conditions Aggravated by Exposure to Product: None known.

Other: None known.

Cancer Information:

This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data available.

Chemical Fate Information: No data available.

13. DISPOSAL CONSIDERATIONS

Hazardous Waste Number: D002

Disposal Method: Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.

14. TRANSPORT INFORMATION

DOT (Department of Transportation):

Identification Number: UN2581
Proper Shipping Name: ALUMINUM CHLORIDE, SOLUTION
Hazard Class: 8
Packing Group: III
Label Required: CORROSIVE

15. REGULATORY INFORMATION

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

SARA Title III Section 311/312 Category Hazards:

	<u>Immediate (Acute)</u>	<u>Delayed (Chronic)</u>	<u>Fire Hazard</u>	<u>Pressure Release</u>			<u>Reactive</u>	
	Yes	No	No	No	No	No	WI	Prop.
							HAP	65
Regulated Components:								
<u>Component</u>			<u>CAS</u>	<u>CERCLA</u>	<u>SARA</u>	<u>SARA</u>	<u>U.S.</u>	
			<u>Number</u>	<u>RQ</u>	<u>EHS</u>	<u>313</u>	<u>HAP</u>	
Aluminum Soluble Salts			7446-70-0	No	No	No	No	Yes No

*Prop 65 - May Contain the Following Trace Components:

No data available.

16. OTHER INFORMATION

Hazard Rating System

Health: 3
Flammability: 0
Reactivity: 1

* = Chronic Health Hazard

NFPA Rating System

Health: 3
Flammability: 0
Reactivity: 1
Special Hazard: None

MSDS Abbreviations

N.A. = Not Applicable

N.D. = Not Determined

HAP = Hazardous Air Pollutant

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VOC = Volatile Organic Compound
C = Ceiling Limit
N.E./Not Estab. = Not Established

MSDS Prepared by: JB

Reason for Revision: New format. Changes made throughout the SDS.

Revised: 06-27-2014
Replaces: 07-20-2011

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which HYDRITE CHEMICAL CO. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.