

**Safety Data Sheet**  
**ALUMINUM BRIGHTENER**

**SECTION I - IDENTIFICATION**



Car Chem  
398 S. King Oak St.  
Trenton, IL 62293  
(618) 224-7445  
INFOTRAC :..... (800) 535-5053

**Product Number** CC AB  
**Product Name** ALUMINUM BRIGHTENER  
**Chemical Family** Acid  
**CAS Number** Multiple  
**Date Prepared** 5/28/2015  
**Revision Number** 7/2/2020  
**Recommended Use** Industrial Use Cleaning Agent

**SECTION II - HAZARDOUS IDENTIFICATION**

**GHS CLASSIFICATION:**

**Classification**

Corrosive to Metals	Category 1
Acute Toxicity, Oral	Category 1, 2
Aspiration Hazard	Category 1
Acute Toxicity, Dermal	Category 1, 2
Serious Eye Damage/Eye Irritation	Category 1
Acute Toxicity, Inhalation	Category 1, 2
Carcinogenicity	Category 1A, 1B

**DANGER!**

**GHS LABEL:**



**Hazard Statements**

H290	May be corrosive to metals
H300	Fatal if swallowed
H304	May be fatal if swallowed and enters airways
H310	Fatal in contact with skin
H318	Causes serious eye damage
H330	Fatal if inhaled
H350	May cause cancer

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**Precautionary Statements**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P234 Keep only in original packaging.
- P260 Do not breathe dust, fumes, gas, mist, vapors or spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves, clothing, eye and face protection. Goggles, gloves, face mask/shield and/or a separate approved breathing apparatus if required.
- P284 Wear respiratory protection.
- P301+310 IF SWALLOWED: Immediately call a POISON CENTER or physician.
- P302+352 IF ON SKIN: Wash with plenty of running water and soap until all is removed.
- P304+340 IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing.
- P308+313 IF exposed or concerned: seek medical attention.
- P310 Immediately call a POISON CENTER or physician.
- P320 Specific treatment is urgent. Seek medical attention, call poison control and refer to SDS.
- P321 Specific treatment: refer to section four, first aid or see a physician.
- P330 Rinse mouth if accidentally swallowed.
- P331 Do NOT induce vomiting.
- P362+364 Immediately remove all contaminated clothing and wash them before reuse.
- p390 Absorb spillage to prevent material damage.
- P403+233 Store in a well ventilated area with container tightly closed.
- P405 Store locked up.
- P406 Store in a corrosive resistant container with a resistant inner liner.
- P501 Dispose of contents or container according to all state, local and federal laws.

**SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS**

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The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

Component Name	CAS #	Component%	OSHA PEL	ACGIH TLV
nonylphenol polyethylene glycol ether	127087-87-0	<5%	NONE	NONE
Hydrogen fluoride	7664-39-3	1-15%	3.0 ppm	0.5 ppm
Sulfuric Acid	7664-93-9	1-15%	1 mg/m <sup>3</sup> (Ceiling)	1 mg/m <sup>3</sup> (Ceiling)

**SECTION IV - FIRST AID MEASURES**

**Contact with eyes:** Flush eyes with running water for five minutes. Then continue to flush with a 1% calcium gluconate solution using a syringe. If calcium gluconate solution is not available continue to flush with water. Remove contact lenses if able. Seek medical attention immediately!

Remove contact lenses, flush immediately with plenty of cool running water, continue to flush for 15 minutes. Consult physician if irritation persists.

**Skin contact:** Flush skin with running water for 15 minutes. Then apply a 2.5% calcium gluconate gel to affected areas until pain subsides. Always seek medical attention if exposed. Acid will continue to cause damage even after area is cleaned and many hours later. Remove any contaminated clothing. Always use protective gear when handling contaminated clothing. Place soiled clothes in plastic bags for disposal.

Take off immediately contaminated clothes. Rinse skin with water or shower. Call a poison control center and seek medical attention. Chemical burns must be treated by a physician.

**Inhalation:** Remove victim to fresh air and keep in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do NOT use mouth to mouth if victim inhaled the substance. Call 911.

Always use an approved breathing apparatus when using acid. Lungs can become damaged and swell from breathing vapors. If exposed to vapors present, remove to fresh air. If breathing becomes difficult call 911. If breathing stops start Artificial respirations. In hospital may need a nebulizer treatment of 2.5% calcium gluconate.

**Ingestion:** Aspiration hazard.

Give sips of water. Never give anything by mouth to an unconscious person.

If vomiting occurs, keep head below hips to prevent aspiration of contents into lungs.

Ingestion is a life threatening emergency. Call 911. Do NOT induce vomiting. Drink large amounts of water and milk. Then may drink Milk of Magnesium or mylanta. Even small amounts ingested can cause death.

**SECTION V - FIREFIGHTING MEASURES**

**Suitable Extinguishing Media:** Water fog, foam, CO<sub>2</sub>, dry chemical.  
Not considered a fire hazard.

**Special Fire Fighting Procedures** Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area.

**Unusual Fire Fighting Hazards:** No unusual fire hazards known.

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**SECTION VI - ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Wear full protective gear including a respirator when cleaning up a spill. Do not allow any area on body to be exposed.

**Environmental Precautions:** Contain spill if it can be done with minimal risk. Prevent liquid from entering drains, sewers or waterways. Notify proper authorities.  
Use a complete protective suit with a self contained breathing apparatus for large spills. Absorb the spill with a suitable absorbent. Calcium hydroxide (lime) may be used. Absorbent pads made of polypropylene for acids spills may also be used. Dispose of according to local, state and federal laws.

**Methods for Cleaning Up:** Evacuate the area. Use a complete protective suit with a self contained breathing apparatus for large spills. Approved absorbent pads made of polypropylene and suitable for acid may be utilized. Calcium hydroxide may be placed on the spill. Follow your local, state and federal laws for disposal.

**SECTION VII - HANDLING AND STORAGE**

**Handling and Storage:**

- "Empty" containers may retain residue and/or vapor and may be dangerous. Do not cut, weld, braze solder, drill, grind or expose such containers to heat, flames, sparks, or other ignition sources.
- Keep containers tightly closed when not in use.
- Do not redistribute empty containers.
- Avoid contact with eyes.
- Product is acidic. Avoid breathing of mist or vapor. Minimize skin contact. Wash exposed skin areas thoroughly after handling. "Empty" containers may retain residue and vapor. Treat containers with same caution as when handling the contents. Keep containers tightly closed when not in use. When unloading bulk vehicles, personnel should wear chemical goggles and rubber or neoprene gloves.
- Impervious clothing, gloves, footwear and head gear must be worn at all times.

**SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION**

**EXPOSURE LIMITS:**

Component Name	CAS #	OSHA PEL	ACGIH TLV
nonylphenol polyethylene glycol ether	127087-87-0	NONE	NONE
Hydrogen fluoride	7664-39-3	3.0 ppm	0.5 ppm
Sulfuric Acid	7664-93-9	1 mg/m <sup>3</sup> (Ceiling)	1 mg/m <sup>3</sup> (Ceiling)

**Engineering Controls:** Airborne concentrations should be kept to the lowest levels possible. If vapor, dust or mist is generated and the occupational exposure limit of the product is exceeded use appropriate NIOSH or MSHA approved air purifying or air-supplied respirator authorized in 29 CFR 1901.134 or applicable state regulations after determining the airborne concentration of the contaminant.  
Eyewash, and safety showers should be easily accessible.

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**Monitoring:** Do not eat, drink or smoke in areas where this chemical is used or stored.  
Wash hands prior to eating, drinking or using the restroom.  
Have eye wash stations and safety showers readily available.  
Any clothing or shoes which became contaminated with the product should be removed immediately and thoroughly laundered before wearing again.

**Personal Protective Equipment (PPE)**

**Eye Protection:** Goggles or approved OSHA device with side shields.

**Skin Protection:** Impervious solvent resistant gloves. Impervious apron and work boots recommend where splashing may occur.  
Wear protective gloves selected with regard to both permeation as well as durability.

**Respiratory Protection:** Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.  
See under engineering controls

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Light colored liquid
<b>Odor</b>	Acidic
<b>pH@25°C</b>	1
<b>Melting/Freezing Point</b>	-30°F
<b>Flashpoint</b>	NONE
<b>Specific Gravity</b>	1.21
<b>Solubility</b>	Miscible
<b>Auto-Ignition Temperature</b>	N/A
<b>Decomposition Temperature</b>	N/A
<b>VOC Content</b>	N/A
<b>Odor Threshold</b>	N/A
<b>Boiling Range</b>	>212°F
<b>Evaporation Point</b>	1
<b>Flammable Limits - Upper</b>	N/A
<b>Flammable Limits - Lower</b>	N/A
<b>Vapor Pressure</b>	N/A
<b>Vapor Density (Air=1)</b>	N/A
<b>Viscosity</b>	N/A

**SECTION X - STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions. Reacts with most metals producing hydrogen which is extremely flammable and may explode.

**Conditions to Avoid:** Material is very corrosive and will attack most metals and evolve hydrogen gas.  
Hydrochloric acid is very reactive and will react with most surfaces. Never mix with other agents. Toxic fumes may develop.

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**Hazardous Decomposition/Byproducts:** Reaction with reactive metals may produce flammable hydrogen; reaction with bases can be violent and produces extreme heat.

**Hazardous Polymerization:** Under normal conditions of storage and use, hazardous reactions should not occur.

**Polymerization Conditions to Avoid:** None known.

**Incompatibilities:** Glass and silicate bearing materials will be attacked. Avoid contact with carbonates, sulfates and cyanides. Toxic gases may form. Contact with alkalis and some oxides cause strong violent, exothermic reactions. Contact with metals will yield hydrogen gas, a fire and explosivereactive hazard. When diluting water considerable heating always occurs. Always add acid to water or the other way around.

**SECTION XI - TOXICOLOGICAL INFORMATION**

**Likely Route of Exposure:** Contact and inhalation; ingestion possible.

**Inhalation:** Can cause damage to nasal and respiratory passages.  
Inhalation can be fatal.  
Toxic after short term inhalation.  
Corrosive to the respiratory system.

**Eye Contact:** Will cause severe burns on contact and will damage the eyes.

**Skin Contact:** Causes severe skin burn.  
Toxic after single exposure to the skin. May cause degreasing.  
Severe burns to the skin, defatting, dermatitis. HF is absorbed through the skin and attacks calcium in the bones. Onset of pain may be delayed.

**Ingestion:** Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia and edema.  
Death can result from ingestion.  
Causes severe damage to mucous membranes and deep tissues, a result in death on penetration to vital areas.

**Acute Toxicity Value:** Eye or skin contact will result in serious burns and may cause blindness.  
Toxic if swallowed.

**Chronic (Long Term) Effects:** See Health Hazards above.

**Toxicity:**

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Component Name	LD50	LC50
nonylphenol polyethylene glycol ether	Dermal-Rabbit-2000-2991mg/kg	Oral-Rat-960 -3980mg/kg
Hydrogen fluoride	LD 100-oral-80mg/kg ( 2% solution) Guinea Pig	1 hour-1066 ppm Rat
Sulfuric Acid	Oral - rat - 2140 mg/kg	Inhalation - mouse - 320 mg/m3/2H; Inhalation - rat - 51-

**Reproductive Effects** Not Known  
**Teratogenicity** Not Known  
**Mutagenicity** Not Known  
**Embryotoxicity** Not Known  
**Sensitization to Product** Not Known  
**Synergistic Products** Not Known  
**Carcinogenicity** A componet of this mixture may cause cancer

**SECTION XII - ECOLOGICAL INFORMATION**

**Ecotoxicity:** Information not available.

**Mobility:** Information not available.

**Degradability:** Information not available.

**BioAccumulation:** Information not available.

**SECTION XIII - WASTE DISPOSAL CONSIDERATIONS**

Dispose of according to all federal, state and local guidelines.

**SECTION XIV - TRANSPORT INFORMATION**

**DOT SHIPPING INFORMATION**

**Proper Shipping Name:** Corrosive Liquid, Toxic, N.O.S. (contains Hydrofluoric Acid, Sulfuric Acid)

**Contains:**

**Hazard Class and Label:** 8, (6.1)

**Identification Number:** UN2922

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Packaging Group: II

Other Shipping Info:

**SECTION XV - REGULATORY INFORMATION**

**TSCA STATUS:**..... Some components of this product are listed on the TSCA Inventory

**SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:**

Component Name	CAS #	% by wt.	RQ (lbs.)	TPQ (lbs.)
Hydrogen fluoride	7664-39-3	1-15%	100 lbs	
Sulfuric Acid	7664-93-9	1-15%		1,000

**SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:**

Acute	Chronic	Fire	Pressure	Reactive
X	X	N/A	N/A	N/A

**SARA TITLE III SECTION 313 SUPPLIER INFORMATION:**

Component Name	CAS #	% by wt.
Hydrogen fluoride	7664-39-3	1-15%

**CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:**

Component Name	CAS #	% by wt.	RQ (lbs.)
	Not Regulated		None
Hydrogen fluoride	7664-39-3	1-15%	100
Sulfuric Acid	7664-93-9	1-15%	1,000

**CALIFORNIA PROPOSITION 65:**

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**SECTION XVI - OTHER INFORMATION**

HMIS Health: ..... 3

HMIS Flammability: ..... 0

HMIS Reactivity: ..... 0

**Additional:** Other Information (XVI) Revision 2



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**Specification Information**

**Department issuing data sheet:**

**Email address:** sales@carchem.com

**Training necessary:** Always use personal protective equipment when using any type of chemicals for home or business use.

**Disclaimer:**

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