

**Section 1 - Identification**

Product Name: **Aluminum Cleaner** An inorganic acid cleaner. Revised: 4/28/15

<b>Damon Industries, Inc.</b> <b>12435 Rockhill Ave NE</b> <b>Alliance, Ohio 44601</b> <b>U.S.A.</b>	<b>1-800-362-9850</b> <b>1-330-821-5310</b> <b>1-330-821-6355 Fax</b> <b>info@DamonQ.com</b>	<b>24 HOUR EMERGENCY RESPONSE</b> <b>1-800-535-5053 (U.S. &amp; Canada)</b> <b>001-352-323-3500 (International)</b>
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**Section 2 - Hazards Identification**

Hazard categories: Corrosive to metals 1; Acute Toxicity-Oral 2; Acute Toxicity-Dermal 1; Acute Toxicity- Inhalation 3; Skin Corrosion/Irritation 1; Eye Corrosion/Irritation 1

Hazard statements: Causes severe skin burns and serious eye damage.  
 May be corrosive to metals.  
 Fatal if swallowed.  
 Fatal in contact with skin.  
 Toxic if inhaled.



Signal word: Danger  
 Pictogram: Corrosion; Skull & Crossbones

Precautionary statements

Prevention

Keep only in original container. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Wear protective gloves such as latex. Wear protective clothing such as an apron. Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. Wear eye protection such as safety glasses with side shields

Response

**IF SWALLOWED:** Immediately call a POISON CENTER. Rinse mouth.  
**IF ON SKIN:** Wash with plenty of water. Immediately call a POISON CENTER. Take off immediately all contaminated clothing and wash it before reuse.  
**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER for medical advice.  
**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Absorb spillage to prevent material damage.

Storage:

Store in corrosive resistant container with a resistant inner liner. Store locked up.  
 Store in a well-ventilated place. Keep container tightly closed.

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

**Section 3 - Composition / Information on Ingredients**

Ingredient	C.A.S. No.	Concentration
Water	7732-18-5	85%
Sulfuric acid	7664-93-9	10%
Hydrofluoric acid	7664-39-3	5%

The remaining ingredients are not reportable as described in Appendix D to Sec. 1910.1200 Table D.1.

**Section 4 - First Aid Measures**

**Eye Contact:** Immediately flush eyes with water, lifting upper and lower eyelids occasionally. Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin Contact:** Flush exposed skin with running water for up to 15 minutes. Remove contaminated clothing and shoes. If redness, irritation or other symptoms exist after flushing, get medical attention immediately. Wash clothing before wearing again. Throw away contaminated shoes.

**Inhalation:** Move the affected person to fresh air. If irritation, coughing or other symptoms persist, get medical attention.

**Ingestion:** If the product is swallowed, do NOT induce vomiting. If affected person is conscious, give a glass of water or milk to drink. Treat for shock by keeping the person warm and quiet. Get medical attention immediately.

## Section 5 - Fire-Fighting Measures

**Extinguishing Media:** Any except carbonate dry powder due to reactivity.

**Special Fire Fighting Procedures:** Hydrogen fluoride gas may be liberated by the heat of a fire.

**Unusual Fire And Explosion Hazards:** Contact with reactive metals will form hydrogen gas.

## Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Use adequate personal protective equipment. Wash the area with an alkaline detergent or a 50% solution of baking soda. Spills of 1 gallon or less can be washed to the sanitary sewer with plenty of water. For larger spills, dike to prevent entry into sewers and spread soda ash (sodium carbonate) over the spill to neutralize and absorb. Collected material into clean pails or drums. Wash residue to a sanitary sewer with a large quantity of water.

## Section 7 - Handling and Storage

Empty containers retain product residue and may be hazardous. Observe all precautions given in this data sheet and on label. Keep container closed. Store separate from alkalis, oxidizers and reactive metals in a cool, well ventilated place. Remove leaking containers. Product will etch glass, ceramic and polished or painted surfaces.

**Bleach Warning:** If this product contacts bleach or a cleaner containing bleach, it could produce a dangerous gas (chlorine). If your facility uses bleach, or a cleaner containing bleach, look at the MSDS on the bleach product now, to learn what to do if chlorine is accidentally produced. Your facility should decide upon the appropriate emergency action plan for accidental release of chlorine as a part of your emergency preparedness plan.

## Section 8 - Exposure Controls / Personal Protection

Ingredient	C.A.S. No.	Concentration	TWA(source)	STEL	Ceiling
Sulfuric acid	7664-93-9	10%	1 mg/m <sup>3</sup> (1,2,4), 0.2 mg/m <sup>3</sup> (3)	3 mg/m <sup>3</sup> (3,4)	-
Hydrofluoric acid	7664-39-3	5%	3 ppm(1,2), 0.5 ppm(3)	-	6 ppm(2), 2 ppm(3), 3 ppm(4)

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hour Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous  
Ingredients not shown either have no known limits or are below reportable levels in section 3 above.

**Ventilation:** Use mechanical exhaust, if necessary, to maintain airborne concentrations below the exposure limits.

**Respiratory Protection:** If the exposure limit will be exceeded or fumes are irritating during use, wear a NIOSH approved respirator with an acid vapor cartridge.

**Protective Gloves:** Use rubber, latex or PVC gloves. Do not use disposable latex gloves. Disposable Nitrile gloves are good.

**Eye Protection:** Wear safety glasses with side shields or chemical goggles or face shield.

**Other Protective Equipment:** If splashing is likely to occur wear aprons, protective clothing or boots as the situation calls for. An eyewash station and safety shower should be located within 10 seconds travel time.

## Section 9 - Physical and Chemical Properties

<b>Appearance and Odor:</b> A colorless liquid with an acidic, irritating odor.	
<b>Odor Threshold:</b> Not Available	<b>Vapor Pressure:</b> Not Available
<b>pH:</b> concentrate 1.0 ± 0.5	<b>Vapor Density:</b> Not Available
<b>Melting Point:</b> Not Available	<b>Relative Density (Specific Gravity):</b> 1.14
<b>Freezing Point:</b> Not Available	<b>Solubility(ies):</b> Water: 100%
<b>Boiling Point, Initial:</b> 225° F.	<b>Partition coefficient:</b> Not Available
<b>Boiling Range:</b> Not Available	<b>Auto-ignition Temperature:</b> Not Available
<b>Flash Point:</b> None. (ASTM D-56 closed cup)	<b>Decomposition Temperature:</b> Not Available
<b>Evaporation Rate:</b> ~1 (Water = 1)	<b>Viscosity:</b> Same as water.-
<b>Flammability: (solid, gas):</b> Not Applicable	<b>Volatiles Percent:</b> 95%
<b>Upper Explosive Limit:</b> None	<b>V.O.C.:</b> 0% - 0 grams/liter
<b>Lower Explosive Limit:</b> None	

## Section 10 - Stability and Reactivity

**Incompatibility:** Alkalis, bleach, oxidizers, reactive metals.

**Hazardous Decomposition Products:** None

## Section 11 - Toxicological Information

**Target Organs:** None.

**Primary Routes of Entry:**  Skin contact;  Skin absorption;  Inhalation;  Ingestion

**Potential Health Effects:**

**Eyes** - causes severe damage and may cause blindness very rapidly.

**Skin** - concentrate causes severe irritation which may become serious burns with permanent damage if not rinsed off soon. Dilutions cause irritation, possibly severe, and may lead to dermatitis with repeated contact.

**Swallowing** - causes severe damage to mucous membranes and possibly deep tissue damage and gastrointestinal burns.

**Breathing** - inhalation of vapors causes irritation of the mouth, nose, throat and respiratory passages. Inhalation of mist and prolonged or excessive inhalation of vapors may cause severe damage to the respiratory system.

**Section 12 - Ecological Information**

Do not dispose of concentrate in the environment.

**Section 13 - Disposal Considerations**

**Waste Disposal Method:** Up to 1 gallon may be washed to the sanitary sewer with a large amount of water. Larger amounts should be neutralized to within pH limits of your waste water system and then disposed of in the sanitary sewer. Check to see if absorbent material is hazardous waste in your area or not.

**Section 14 - Transport Information**

**D.O.T. Hazard Class:** Compounds, Cleaning, Liquid, 8, NA1760, PG II (Contains sulfuric and hydrofluoric acids)

**Section 15 - Regulatory Information**

The components of this product are on the TSCA inventory of chemical substances.

**Section 313 Supplier Notification:** This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and CFR 372.

<u>Chemical Name</u>	<u>C.A.S. No.</u>	<u>% By Weight</u>	<u>Lbs./Gallon</u>
Sulfuric acid	7664-93-9	10%	0.964
Hydrofluoric acid	7664-39-3	5%	0.458

**Section 16 - Other Information**

**NFPA:** H:3 F:0 I:1      **HMIS® III:** H:3 F:0 P:2      These ratings estimates are to be used only with a fully implemented training program in the workplace. NFPA® is a mark registered by the NFPA. HMIS® is a mark registered by the NPCA.

Replaces sheet dated 4/5/13. GHS conversion.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.