

Section 1 - Identification

Product Name: **A.R.C. Cleaner** Inorganic acid. Revised: 5/9/23

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

Hazard categories: Corrosive to metals 1; Acute Toxicity-Oral 4; Skin Corrosion/Irritation 1; Eye Corrosion/Irritation 1.

Hazard statements: May be corrosive to metals.
 May cause damage to organs through prolonged or repeated exposure.
 Harmful if swallowed.
 Causes severe skin burns.
 Causes serious eye damage.

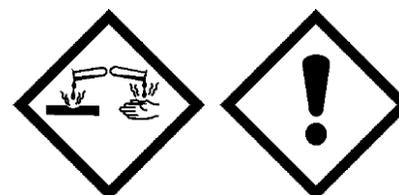
Signal word: Danger

Pictograms: Corrosion, Exclamation

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 breathe dusts or mists.
- Wear protective gloves such as latex
- Wear protective clothing such as an apron.
- Wear eye protection such as safety glasses with side shields



Response

- IF SWALLOWED:** Do NOT induce vomiting. Call a POISON CENTER if you feel unwell. Rinse mouth.
- IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing 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. Immediately call a POISON CENTER.

Storage: Store in corrosive resistant container with a resistant inner liner. Store locked up.

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	70%
Ammonium bifluoride	1341-49-7	15%
Sulfuric acid	7664-93-9	14%

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:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.
- Skin Contact:** Flush exposed skin with running water. Remove contaminated clothing and shoes. If redness, irritation or other symptoms exist after flushing, get medical attention. 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. 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 absorb spill with an inert material (vermiculite, dry sand, or cloth). Put collected material into clean pails or drums for reclamation or disposal. Wash the area with an alkaline detergent or a 50% solution of baking soda. 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	14%	1 mg/m ³ (1,2,4), 0.2 mg/m ³ (3)	3 mg/m ³ (3,4)	-

(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 required, 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 gloves.

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

Appearance and Odor: A colorless liquid with an acidic, irritating odor.	
Odor Threshold: Not Available	Vapor Pressure: Not Available
pH: concentrate 1.0 ± 0.5	Vapor Density: Not Available
Melting Point: Not Available	Relative Density (Specific Gravity): 1.14
Freezing Point: Not Available	Solubility(ies): Water: 100%
Boiling Point, Initial: 225° F.	Partition coefficient: Not Available
Boiling Range: Not Available	Auto-ignition Temperature: Not Available
Flash Point: None. (ASTM D-56 closed cup)	Decomposition Temperature: Not Available
Evaporation Rate: ~1 (Water = 1)	Viscosity: Same as water.-
Flammability: (solid, gas): Not Applicable	Volatiles Percent: 85%
Upper Explosive Limit: None	V.O.C.: 22.7% - 230 grams/liter
Lower Explosive Limit: None	

Section 10 - Stability and Reactivity

Incompatibility: Alkalis, bleach, oxidizers, reactive metals.

Hazardous Decomposition Products: None

Section 11 - Toxicological Information

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.

Target Organs: None.

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. For larger quantities, dispose of the material in accordance with local, state and federal regulations.

Section 14 - Transport Information

D.O.T.: UN3264, Corrosive liquid, acidic, inorganic, n.o.s., 8, PG II (Sulfuric acid and ammonium bifluoride)

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	14%	1.29

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 2/1/22. Revised Section 6 and 13.

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.