



MARTRON INC. SAFETY DATA SHEET MARTRON ALU ACID ETCH

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PRODUCT and COMPANY IDENTIFICATION

Product Identifier: MARTRON ALU ACID ETCH
Product Number: MFC-005009
Product Use: Metal cleaner

Revision Date: 10/14/2013
Version: 2

Supplier Details: Martron Inc.
1394-A Walkup Ave.
Monroe, NC 28110
704-289-1934

Website: www.martroninc.com

Emergency Number: CHEMTREC 800-424-9300

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HAZARDS IDENTIFICATION

Classification of the Substance or Mixture:

GHS Classification in Accordance With 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 5 Oral
Health, Acute toxicity, 5 Dermal
Health, Serious Eye Damage/Eye Irritation, 2 B
Physical, Corrosive to Metals, 1
Health, Acute toxicity, 3 Dermal
Health, Acute toxicity, 3 Oral

GHS Label Elements, Including Precautionary Statements:

GHS Signal Word:

DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

H303 - May be harmful if swallowed.
H313 - May be harmful in contact with skin.
H320 - Causes eye irritation.
H290 - May be corrosive to metals.
H311 - Toxic in contact with skin.
H301 - Toxic if swallowed.

GHS Precautionary Statements:

P304 - IF INHALED: Move individual to fresh air and contact a physician.
P305 - IF IN EYES: Flush eyes with plenty of water. If redness persists, seek medical attention.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+350 - IF ON SKIN: Gently wash with soap and water.

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COMPOSITION / INFORMATION OF INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
7664-39-3	5-10%	Hydrofluoric Acid

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FIRST AID MEASURES

Inhalation:

If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

Skin Contact:

Flush skin with water until all chemical is removed. Contact a physician.

Eye Contact:

Flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Contact a physician if redness persists.

Ingestion:

Give 1-2 glasses of water. Do not induce vomiting. Get medical advice. Do not give anything by mouth to an unconscious or convulsing person.

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FIREFIGHTING MEASURES

Flash Point:

None

Flash Point Method:

N/A

Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable Extinguishing Media:

Not applicable.

Hazardous Combustion Products:

Not applicable.

Special Exposure Hazards:

None.

Special Protective Equipment:

Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

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ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures:

Use appropriate protective equipment. (See Section 8.) Do not get into eyes, skin, or clothing. Wear respiratory protection. Avoid breathing vapors. Ensure adequate ventilation.

Environmental Precautionary Measures:

Do not empty into drains.

Methods and Materials for Containment and Cleanup:

Soak up residue with an absorbent such as clay or sand. Place in a non-leaking container for proper disposal according to Federal, State, and Local regulations. Do not discharge into waterways or sewage systems.

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HANDLING and STORAGE

Handling Precautions:

Use in a well-ventilated area. Do not breathe vapors. Do not get on skin, eyes, or clothing.

Storage Requirements:

Use in a well-ventilated area. Do not breathe vapors. Do not get on skin, eyes, or clothing.

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EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Use in well-ventilated area.

Personal Protective Equipment:

HMIS PP, C | Safety Glasses, Gloves, Apron.

Hydrofluoric Acid (7664-39-3) [5-10%]

Components with workplace control parameters

STEL	6 ppm	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -1910.1000
TWA	0.5 ppm	USA. ACGIH Threshold Limit Values (TLV) Fluorosis Upper Respiratory Tract, Lower Respiratory Tract, skin & eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI section)
C	2 ppm	USA. ACGIH Threshold Limit Values (TLV) Fluorosis Upper Respiratory Tract, Lower Respiratory Tract, skin & eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI section)
TWA	3 ppm	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -1910.1000
TWA	3 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z2 Z37.28-1969
TWA	2.5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z- 1 Limits for Air Contaminants
TWA	2.5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z- 1 Limits for Air Contaminants CAS number varies with compound
TWA	3 ppm 2.5 mg/m3	USA. NIOSH Recommended Exposure Limits
C	6 ppm 5 mg/m3	USA. NIOSH Recommended Exposure Limits 15-minute ceiling value See Table Z-2

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PHYSICAL and CHEMICAL PROPERTIES

Appearance:	Clear Colorless
Odor:	Pungent
Physical State:	Liquid
Solubility:	Soluble in water
Odor Threshold:	Not available
Freezing/Melting Point:	Not available
Spec Gravity/Density:	1.1
Flash Point:	N/A
Viscosity:	Not available

Vapor Density:	Not available
Boiling Point:	Not available
Auto-Ignition Temperature:	Not available
Flammability:	Not available
Partition Coefficient:	Not available
Vapor Pressure:	Not available
pH:	<2
Evap Rate:	Slower than water
Decomp Temperature:	Not available

10**STABILITY and REACTIVITY****Chemical Stability:**

Stable
Open flames and heat
Chlorine based cleaners

Hazardous Decomposition:

Unknown

Hazardous Polymerization:

Will not occur

11**TOXICOLOGICAL INFORMATION****Hydrofluoric Acid (7664-39-3) [5-10%]****Information on Toxicological Effects****Acute Toxicity:**

Oral LD50 No data available
Inhalation LC50
Dermal LD50
Other information on acute toxicity

Skin Corrosion/Irritation:

No data available

Serious Eye Damage/Eye Irritation:

No data available

Respiratory or Skin Sensitization:

No data available

Germ Cell Mutagenicity:

No data available

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrofluoric acid)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity:

No data available

Teratogenicity:

No data available

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):

No data available

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System):

No data available

Aspiration Hazard:

No data available

Potential Health Effects:

Inhalation: Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: May be fatal if swallowed.

Skin: May be fatal if absorbed through skin. Causes skin burns.

Eyes: Causes severe eye burns.

Signs and Symptoms of Exposure:

Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., necrosis of the skin, Material can cause severe burns and blistering which may not be immediately painful or visible. The full extent of tissue damage may not exhibit itself for 12-24 hours after exposure.

Synergistic Effects:

No data available

Additional Information:**RTECS:**

Not available

12**ECOLOGICAL INFORMATION****Hydrofluoric Acid (7664-39-3) [5-10%]****Information on Ecological Effects:****Toxicity:**

No data available

Persistence and Degradability:

No data available

Bio-accumulative Potential:

No data available

Mobility in Soil:

No data available

PBT and vPvB Assessment:

No data available

Other Adverse Effects:

No data available

13**DISPOSAL CONSIDERATIONS****Empty Containers:**

If empty container retains product residue, all label precautions must be observed. Dispose of unused product prior to

disposing of empty container.

Disposal Considerations of Substance:

Do not discharge into waterways or sewage systems. Transport with all closures in place. Return for reuse or dispose of according to national, local, and state regulations.

14 TRANSPORT INFORMATION

UN1790, Hydrofluoric acid, with not more than 60 percent strength, 8, (6.1), PG II
 Marine Pollutant: No

15 REGULATORY INFORMATION

Component (CAS#) [%] - Codes

RQ (100LBS), Hydrofluoric Acid (7664-39-3) [5-10%] CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, OSHAPSM, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

Regulatory Code Descriptions

- RQ = Reportable Quantity
- CERCLA = Superfund cleanup substance
- CSWHS = Clean Water Act Hazardous substances
- EHS302 = Extremely Hazardous Substance
- EPCRAWPC = EPCRA Water Priority Chemicals
- HAP = Hazardous Air Pollutants
- MASS = MA Massachusetts Hazardous Substances List
- NJEHS = NJ Extraordinarily Hazardous Substances
- NJHS = NJ Right-to-Know Hazardous Substances
- OSHAPSM = OSHA Chemicals Requiring process safety management
- OSHAWAC = OSHA Workplace Air Contaminants
- PA = PA Right-To-Know List of Hazardous Substances S
- TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
- ARA313 = SARA 313 Title III Toxic Chemicals
- TSCA = Toxic Substances Control Act
- TXAIR = TX Air contaminants with Health Effects Screening Level
- TXHWL = TX Hazardous Waste List

16 OTHER INFORMATION

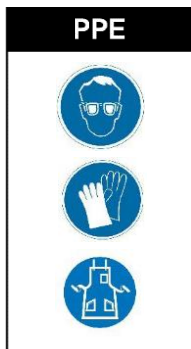
HMIS III:

Health = 2
 Fire = 0
 Physical Hazard = 1

HMIS	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	C

HMIS PPE:

C - Safety Glasses, Gloves, Apron

**Publication Date:**

10/14/2013, supersedes revision 09/11/2013

Revision Number:

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IMPORTANT NOTE:

To the best of our knowledge, the information contained herein is accurate. However, *Martron Inc.* assumes no liability whatsoever for the accuracy or completeness of the information. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of the suitability of any material is the sole responsibility of the user.