

Material Safety Data Sheet

U.S. Format

SiAn Etch™

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Category: Research Sample
Product Number:
Product Name: SiAn Etch™
Product Synonyms:

U.S. Manufacturer and Distributor:

SACHEM, Inc.
821 Woodward Street
Austin, Texas 78704
USA

General Assistance Phone: (512) 421-4900

Emergency Telephone Numbers:

Health/Transport (512) 421-4900 (8 AM - 5 PM CST)
Health/Transport (512) 415-3006 (5 PM - 8 AM CST)
CHEMTREC Not available

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>Wt.%</u>	<u>CAS Registry#</u>
Proprietary Quaternary Ammonium Hydroxide	< 25	Proprietary
Water	>75	7732-18-5

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200):

<u>Component</u>	<u>Exposure Limits 8 hrs. TWA (ppm)</u>		
	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Supplier Rec.</u>
Proprietary Quaternary Ammonium Hydroxide	None established	None established	None established
Hazard: Corrosive liquid			

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Strong alkaline liquid. Wear personal protective equipment to prevent contact with eyes and skin. Causes skin burns. Causes skin, respiratory tract and eye irritation. Remove and wash all contaminated clothing before reuse. Thoroughly wash the affected area with water.

SIGNS AND SYMPTOMS OF EXPOSURE:

To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Exposure may result in intense burning of the eyes, nose, throat, lungs, and skin. Degree of burning and irritation will depend on the level and duration of exposure.

POTENTIAL HEALTH EFFECTS:

- Inhalation:** Very corrosive to mucous membranes, if mists are inhaled. May cause irritation
- Eye Contact:** Very corrosive to eyes. May cause irritation.
- Skin Contact:** Very corrosive to skin. May cause irritation.
- Ingestion:** Very corrosive.
- Chronic:** May cause areas of primary irritant dermatitis.

4. FIRST AID MEASURES:

- Inhalation:** Remove to fresh air. If breathing has stopped, give artificial respiration taking care to avoid contact with this product. Consult a physician.
- Eye Contact:** Immediately flush with water until no evidence of chemical remains (at least 15-20 minutes). Immediately consult a physician.
- Skin Contact:** Immediately flush with water with sufficient volume until there is no evidence of the chemical on the affected area.
- Ingestion:** Do not induce vomiting. If person is conscious and able to swallow, have them drink a large volume of water and milk. Contact a physician.

5. FIRE FIGHTING MEASURES:

IGNITION DATA:

Flashpoint: Not flammable Method:
Auto-Ignition Temperature: Not known
Flammable Limits: LEL: N/A UEL: N/A

GENERAL HAZARD:

Corrosive to skin and eyes.

FIRE FIGHTING INSTRUCTIONS:

Avoid contact with eyes, skin and clothing. Avoid breathing corrosive vapors.

FIRE FIGHTING EQUIPMENT:

Wear S.C.B.A. May use water spray, carbon dioxide, dry chemical or chemical foam to fight fire.

HAZARDOUS COMBUSTION PRODUCTS:

May emit Nitrogen oxides and carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES:

LAND SPILL:

Contain spill. Use personal protective equipment to prevent contact with eyes, skin and clothing. Avoid routing to water bodies or streams. Soak up with absorbent material and place in containers for disposal.

WATER SPILL:

Contain spill. If safety allows, stop flow at the source. Prevent contact with eyes, skin and clothing. Prevent flow to water supplies. Isolate and take up for disposal.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE:

May be stored at ambient temperatures. Avoid high temperatures.

STORAGE PRESSURE:

May be stored at ambient pressures.

GENERAL:

Do not get into eyes and avoid contact with skin or clothing. Do not breathe mist. Wash all contaminated clothing before reuse. Best if stored in plastic or glass. May slightly corrode some grades of stainless steel. Do not eat or drink while handling. Wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**ENGINEERING CONTROLS:**

Provide controls to prevent spraying and misting and to prevent exposure to spray and mist.

PERSONAL PROTECTIVE EQUIPMENT:

Mist type respirator if exposed to mist.
Rubber gloves. Safety glasses or chemical goggles.
Eyewash and safety shower readily available in the immediate area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	Not known	Vapor Density(Air=1):	Not known
Specific Gravity:	Approx. 1.016 @ 20 C	Evap. Rate(<i>n-Butyl Acetate</i> =1):	Not known
Solubility in Water:	Miscible	Freezing Point:	Approx. 0° C
pH of solution:	> 13	Odor:	slight amine
Boiling Point:	Approx. 102 C	Appearance:	Colorless to light yellow solution
Melting Point:	N/A	Physical State:	Liquid
Viscosity:	Not known		

10. STABILITY AND REACTIVITY**GENERAL:**

Stable at ambient temperatures. Do not expose to high temperatures.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong acids. Oxidizers should be tested for compatibility before use. Boiling temperatures should be avoided.

HAZARDOUS DECOMPOSITION:

Trimethylamine may be produced during decomposition.
In fire conditions: Carbon monoxide and Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

No toxicity information available. Not identified as an OSHA, NTP or IARC carcinogen.
No data is available indicating any carcinogenic activity.

12. ECOLOGICAL INFORMATION

If neutralized, this material may be biodegradable in an acclimated biological treatment facility. No specific biodegradation information available.
No acute aquatic toxicity data is available for this compound.

13. DISPOSAL CONSIDERATIONS

Would be considered as characteristic waste (DOO2), if disposed in the form as shipped from SACHEM. Incinerate or dispose according to all federal, state and local regulations. Do not discharge directly to surface waters.
Do not discharge directly to surface waters.

14. TRANSPORT INFORMATION

DOT:

PROPER SHIPPING NAME:

Caustic alkali Liquids, n.o.s., (SiAn Etch™), 8, UN1719, PGII

HAZARD CLASS:

Corrosive

IDENTIFICATION NUMBER:

UN1719

ICAO/IATA:

PROPER SHIPPING NAME:

Caustic alkali Liquids, n.o.s., (SiAn Etch™), 8, UN1719, PGII

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act):

All components of this product are listed on the TSCA Chemical Inventory.

CERCLA (Comprehensive Response Compensation, and Liability Act):

Not listed

SARA TITLE III (Superfund Amendments and Reauthorization Act):

Not listed. An Acute hazard under SARA 311/312

NOTES:

All components of this product are listed on the European EINECS List.

All components of this product are listed on the Canadian DSL or NDSL lists.

16. OTHER INFORMATION

NOTES: Recommended HMIS ratings: H - 3; F - 0; R - 1

APPROVAL STATUS and REVISION SUMMARY:

Approved by: Bryan Hale

Date Approved: September 10, 2010

THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.