



Product Information: 203-723-1437 Emergency Assistance: P-ChEM 1-800-424-5571

SAFETY DATA SHEET

Ambex 62C

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Product Identifier: Aluminum Etchant

Supplier Details: Ambion Corporation
37 Naugatuck Drive
Naugatuck, CT 06770
Tel: 203-723-1437
Fax: 203-723-0101

Emergency Contact P-ChEM: 1-800-424-5571

2. HAZARDS IDENTIFICATION

Danger!!

OSHA Hazards: Corrosive



Hazard Statement(s)

H272 May intensify fire; oxidizer
H290 May be corrosive to metals
H301 Toxic if swallowed
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary Statement(s)

P202 Do not handle until all safety precautions have been read and understood
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P220 Keep/store away from clothing/combustible materials.
P221 Take any precaution to avoid mixing with combustibles
P233 Keep container tightly closed
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P262 Do not get in eyes, on skin or on clothing
P264 Wash...thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor /physician.
P303+352 IF ON SKIN: Wash with plenty of water.
P304+340 IF INHALED: Remove person 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 - continue rinsing.
P306+360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P332+313 If skin irritation occurs: Get medical advice/attention.
P337+313 If eye irritation persists: Get medical advice/attention.
P361 Remove/Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Material	CAS #	EINECS#	WT%
Sodium Hydroxide	1310-73-2	215-185-5	21
Sodium Metasilicate	6834-92-0	229-912-9	21
Sodium Nitrate	7631-99-4	231-554-3	21

4. FIRST AID MEASURES

Ingestion (Swallowing): DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Inhalation (Breathing): Remove patient from contaminated area. If breathing has stopped, give mouth to mouth resuscitation, then oxygen if needed. Get immediate medical attention.

Skin Contact: Remove contaminated clothing at once while washing affected area with plenty of water for at least 15 minutes. Call a physician.

Eye Contact: Wash eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids for occasionally. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, dry chemical, CO2 or foam

Not considered to be an explosion hazard.

Use any means suitable for extinguishing surrounding fire. Contact with some metals (particularly magnesium, aluminum and galvanized zinc) can rapidly generate hydrogen, which is explosive. Emits toxic fumes under fire conditions.

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

NFPA	Health	Flammability	Instability	Physical Hazards
	3	0	0	N/A

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Take steps to prevent eye or skin contact or inhalation.

Environmental precautions:

Contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up:

To clean up spill, scrape up or use absorbent material. Wash contaminated area with alkaline cleaner and water. All clean up and disposal should be carried out in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling:

Do not get on skin or in eyes. Do not inhale vapor or mist.

Conditions for safe storage, including any incompatibilities:

Keep in a tightly closed container. Store in a cool, dry, ventilated area. Protect against physical damage. Separated from acids and alkalis. Containers of this material may be hazardous when empty since they retain product residues.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Limits:**

Material	CAS #	EINECS#	TWA (OSHA)	TLV (ACGIH)
Sodium Hydroxide	1310-73-2	215-185-5	2mg/m3 Ceiling	2 mg/m3 Ceiling
Sodium Metasilicate	6834-92-0	229-912-9	N/A	N/A
Sodium Nitrate	7631-99-4	231-554-3	N/A	N/A

Appropriate engineering controls:

General room or local exhaust ventilations is usually required to meet exposure limits.

Individual protection measures, such as personal protective equipment:

Respiratory protection: Where the potential for exposure exists use the appropriate regulatory compliant particulate filter respirator with full facepiece. Carefully read and follow the respirator manufacturer's instructions and information.

Eye Protection: Close fitting chemical safety goggles with faceshield.

Hand protection: Nitrile. Neoprene. Natural rubber.

Skin and body protection: For operations where spillers or splashes can occur, use impervious body covering and boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point :	N/A
Vapor Pressure (mm. Hg) :	N/A
Vapor Density (Air=1):	N/A
Solubility in Water:	50%
Specific Gravity (Water=1) :	N/A
Melting Point :	N/A
Evaporation Rate (n-BuOH=1) :	N/A
Appearance:	White Powder
Odor:	None

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): May react violently with water and acids. Mixing with water generates a considerable amount of heat. Always add slowly with stirring to water to prevent spattering. Reacts rapidly with aluminum, tin and zinc. Corrosive to bronze and brass.

Hazardous Decomposition or Byproducts: N/A

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:

Eye, skin, inhalation, and ingestion.

Acute Toxicity:

Material	CAS #	EINECS#		
Sodium Hydroxide	1310-73-2	215-185-5	Oral Acute Inhalation	Rat: LD50=4090 mg/kg Rat: LC50=2300 mg/m3
Sodium Metasilicate	6834-92-0	229-912-9	Oral	Rat: LD50=1152-1349 mg/kg
Sodium Nitrate	7631-99-4	231-554-3	Oral Dermal	Rat: LD50=3430 mg/kg Rat: LD50>5000 mg/kg

Symptoms: Skin and eye irritation. Corrosive.

Short Term exposure: Causes severe burns to the eyes. Small quantities can result in permanent damage and/or loss of vision. For skin contact, corrosive action causes burns and frequently deep ulcerations with subsequent scarring. Prolonged contact destroys tissue. Dust or mist from solutions can cause irritant dermatitis.

Long Term exposure: The effects of long-term, low level exposure have not been determined.

Carcinogenicity: None known.

12. ECOLOGICAL INFORMATION

None available

13. DISPOSAL CONSIDERATION

Product should be disposed of by federally approved hazardous waste disposal facility.

14. TRANSPORT INFORMATION

UN number	UN3084
UN proper shipping name	Corrosive solid, oxidizing N.O.S. (Sodium Hydroxide, Sodium Nitrate)
Transport Hazard Class	8, 5.1
Packing Group	II

15. REGULATORY INFORMATION

Not available

16. OTHER INFORMATION

Date Prepared: June 17, 2015
