

Alumatte Etch

SDS Number: 101 Revision Date: 12/26/2014

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

ABCO Products of Sacramento P.O. Box 188469 Sacramento, CA 95818

Contact: ABCO Products of Sacramento

Phone: +1-916-447-9931 **Fax:** +1-916-443-7466

Product Name: Alumatte Etch Revision Date: 12/26/2014

Version: 1 SDS Number: 101

Common Name: Strong Alkaline Etchant

CAS Number: MIXTURE **Product Code:** ABCO J-5R8

Chemical Family: Strong Alkaline Etchant
Chemical Formula: *** PROPRIETARY ***
Product Use: Aluminum Etchant

Emergency Phone: +1-800-424-9300 (CHEMTREC)

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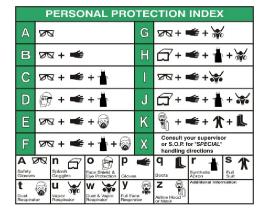
HAZARDS IDENTIFICATION

NFPA: HMIS III:



Health = 3, Fire = 0, Reactivity = 0 H*3/F0/PH0







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GHS Signal Word: DANGER

GHS Hazard Pictograms:





GHS Classifications:

Physical, Corrosive to Metals, 1

Health, Acute toxicity, 4 Oral

Health, Skin corrosion/irritation, 1 A

Health, Specific target organ toxicity - Single exposure, 3

GHS Phrases:

H290 - May be corrosive to metals

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

GHS Precautionary Statements:

P234 - Keep only in original container.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P262 - Do not get in eyes, on skin, or on clothing.

P264 - Wash skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P321 - Specific treatment (see supplementary first aid instructions on this label).

P332+313 - If skin irritation occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage. Hazardous to the aquatic environment.

P403+233 - Store in a well ventilated place. Keep container tightly closed.

P404 - Store in a closed container.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant.



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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas # | Percentage | Chemical Name

1310-73-2 | 90-100% | Sodium hydroxide, solid

N/A | 0-10 | Proprietary, non-hazardous, non-regulated

4 FIRST AID MEASURES

Inhalation: Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms

persist, obtain medical attention.

Skin Contact: Take off contaminated clothing and shoes immediately. Wipe/brush off as much chemical as possible from

skin BEFORE flushing skin with water (water will react exothermically with large amounts of residual dry chemical, potentially causing more severe burns). Promptly flush skin with water for at least 15 minutes to

ensure all chemical is removed. If reddening develops and/or persists, obtain medical attention.

Eye Contact: Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get

immediate medical attention. Continue rinsing eyes during transport to hospital.

Ingestion: Rinse mouth with water. Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce

vomiting. If vomiting occurs, give more water or milk. Never give anything by mouth to an unconscious

person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.

Indication of any immediate medical attention and special treatment needed:

No data available.

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FIRE FIGHTING MEASURES

Flammability: No data available

Flash Point: DNA Flash Point Method: DNA

Burning Rate: No data available
Autoignition Temp: No data available

LEL: DNA UEL: DNA

Extinguishing Media:

Water Spray
Carbon Dioxide
Alcohol-Resistant Foam
Dry Chemical

Special Hazards Arising From the Substance or Mixture:

Carbon Oxides Nitrogen Oxides (NOx) Sodium Oxides Sulfur Oxides



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Advice for Firefighters:

Firefighters should wear full-face, positive-pressure respirators.

Further Information:

If incinerated, may release toxic fumes.

Gives off Hydrogen by reaction with reactive metals (Zinc & Aluminum) and their alloys (Brass, etc.). Hydrogen is flammable and potentially explosive. Use caution.

Use water spray to cool unopened containers.

See Section 7 for more information on safe handling.

See Section 8 for more information on personal protection equipment.

See Section 13 for disposal information.

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ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment, including dust respirator.

Avoid dust formation.

Avoid breathing dust.

Keep from contacting skin or eyes.

Avoid breathing vapors, mist or gas.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions:

Prevent further release (leakage/spillage) if safe to do so.

Do not allow product to enter drains.

Do not allow to drain to environment.

Methods and materials for containments and cleaning up:

Pick up and arrange disposal without creating dust.

Sweep up, shovel or collect spillage with an electrically protected vacuum cleaner.

Place contaminated material into suitable, closed containers for disposal.

Dispose of contaminated material according to Section 13.

After spillage has been collected, area may be flushed with water or wet-brushed.

Ensure adequate ventilation.

Reference to other sections:

Comply with federal, state and local regulations on reporting spills.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on proper disposal.

HANDLING AND STORAGE

Handling Precautions: Avoid formation of dust or aerosols.

Avoid breathing vapors, mist or dust. Avoid contact with eyes, skin, or clothing. Use approved, original containers only. Keep containers closed when not in use.

Do not expose containers to open flame, excessive heat, or direct sunlight.

Do not puncture or drop containers.



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Handle with care and avoid spillage on the floor.

Keep material out of reach of children.

Keep material away from incompatible materials.

Do not use corrosive-sensitive materials for handling product.

Wash thoroughly after handling. Ensure adequate ventilation.

Storage Requirements: Keep away from heat, sparks and flames.

Do not store in direct sunlight.

Store away from strong acids, strong reducing agents, strong oxidizing agents, organic materials, water, chlorinated solvents, reactive metals (Zinc & Aluminum) and their alloys

(Brass), Alkali metals (Lithium, Sodium, Potassium, etc.), Tin & Tin oxides, Lead, Phosphorous & Phosphorous Pentoxide, Nitro compounds (Nitromethane, etc.), Azides,

Anhydrides and Halogens.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use

local exhaust at filling zones and where leakage and dust formation is probable. Use

mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to

keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equip: Eye/face protection:

When using material use safety glasses, gloves and apron according to HMIS PP, C. All safety equipment should be tested and approved under appropriate government standards

such as NIOSH (US) or EN 166 (EU).

Skin protection:

Handle with gloves made from Neoprene, Nitrile or Buma rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and

laboratory practices.

Body Protection:

Chemically resistant gloves, apron and safety glasses are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this

material.

Respiratory protection:

Full-face dust/vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined

thresholds.

Control of environmental exposure:

Prevent leakage or spillage if safe to do so. Do not let material enter drains.

Components with workplace control parameters:

Component(s): Sodium Hydroxide, solid

CAS No(s): 1310-73-2

USA OSHA Table Z-1 Limits for Air Contaminants (C): 2 mg/m³

USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminant (TWA): 2 mg/m³

USA ACGIH (C/TLV): 2 mg/m³ USA ACGIH (CEIL/TLV): 2 mg/m³

USA NIOSH Recommended Exposure Limits (C): 2 mg/m³



Not determined

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Biological occupational exposure limits:

Contains no substances with biological occupational exposure limits values.

Derived No Effect Level (DNEL):

Component(s): Sodium Hydroxide, solid

CAS No(s): 1310-73-2

Inhalation - Workers (Long-term local effects): 1 mg/m³ Inhalation - Consumers (Long-term local effects): 1 mg/m³

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White, Granular Powder

Physical State:SolidOdor:MildOdor Threshold:Not determinedMolecular Formula:MIXTUREParticle Size:No data availableSolubility:100%

Spec Grav./Density: DNA

Viscosity: Not determined Percent Volatile: DNA

Sat. Vap. Conc.: DNA Heat Value: Not determined

Boiling Point: Not determined Freezing/Melting Pt.: Not determined

Flammability: (solid, gas): Not determined Flash Point: DNA

Partition Coefficient: Not determined Octanol: Not determined

Vapor Pressure: (mm Hg @ 20 °C): DNA Vapor Density: (air = 1): Not determined

pH: @ 1%: > 13.5 **VOC:** DNA

Evap. Rate:DNABulk Density:Not determinedMolecular weight:MIXTUREAuto-Ignition Temp:Not determined

Decomp Temp: Not determined UFL/LFL: DNA

10 STABILITY AND REACTIVITY

Stability: Product is stable under normal conditions. **Conditions to Avoid:** Incompatibilities, flames, ignition sources.

Materials to Avoid: Strong acids, strong reducing agents, strong oxidizing agents, organic materials, water,

chlorinated solvents, reactive metals (Zinc & Aluminum) and their alloys (Brass), Alkali metals (Lithium, Sodium, Potassium, etc.), Tin & Tin oxides, Lead, Phosphorous & Phosphorous Pentoxide, Nitro compounds (Nitromethane, etc.), Azides, Anhydrides and Halogens.

Softening Point:

Hazardous Decomposition: Carbon Oxides, Nitrogen Oxides (NOx), Sodium Oxides and Sulfur Oxides.

Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Component(s): Sodium Hydroxide, solid

CAS No(s): 1310-73-2

Acute Toxicity:

LDL Oral - Rabbit: 500 mg/l

LD50 Dermal - Rabbit: 1,350 mg/kg



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Skin Corrosion/Irritation: Rabbit skin - Corrosive (24 h)

Serious Eye Damage/Eye Irritation: Rabbit eyes - Corrosive (24 h)

Respiratory or Skin Sensitation: Will no occur

Germ Cell Mutagenicity: No data available

Carcinogenicity:

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

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 carcinogen or

potential 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

Specific Target Organ Toxicity - Single Exposure: No data available

Specific Target Organ Toxicity - Repeated Exposure: No data available

Aspiration Hazard: No data available

Additional Information:

Component: Sodium Hydroxide, solid; RTECS: WB4900000

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ECOLOGICAL INFORMATION

Component(s): Sodium Hydroxide, solid

CAS No(s): 1310-73-2

Toxicity:

Toxicity to fish:

LC50 - Oncorhynchus mykiss (Rainbow Trout): 45.4 mg/l (96 h)

LC50 - Gambusia affinis (Mosquito Fish): 125 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates: Immobilization EC50 - Daphnia: 40.38 mg/l (48 h)

Persistence and Degradability:

No data available

Bioaccumulative potential:

No data available

Mobility in Soil:

No data available



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Results of PBT and vPvB assessment:

Not required/conducted

Other Adverse Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

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DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

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TRANSPORT INFORMATION

DOT Class: Corrosive (8) #8

UN #: UN 3262, Class: 8, Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (containing Sodium Hydroxide,

solid)

DOT (US)

UN Number: 3262

Class: 8

Packing Group: II ERG #: 154

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (containing Sodium Hydroxide, solid)

Marine Pollutant: No

Poison Inhalation Hazard(s): No

IMDG

UN Number: 3262

Class: 8

Packing Group: II EMS-No: F-A, S-B

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (containing Sodium Hydroxide, solid)

Marine Pollutant: No

IATA

UN Number: 3262

Class: 8

Packing Group: II ERG #: 154

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (containing Sodium Hydroxide, solid)

Marine Pollutant: No





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REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Sodium hydroxide, solid (1310732 90-100%) CERCLA, CSWHS, MASS, NJHS, OSHAWAC, PA, SARA311/312, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
MASS = MA Massachusetts Hazardous Substances List
NJHS = New Jersey Right to Know Hazardous Substances
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
SARA311/312 = SARA 311/312 Toxic Chemicals
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

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OTHER INFORMATION

Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that ABCO Products of Sacramento believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of ABCO Products of Sacramento's control, ABCO Products of Sacramento makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

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