



Revision Number: 004.2

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE C-AK ALUM ETCH 3
AERO known as TURCO ALUMINETCH 3

IDH number: 628186

Product type: Etch Cleaners

Restriction of Use: None identified

Company address: Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Region: United States

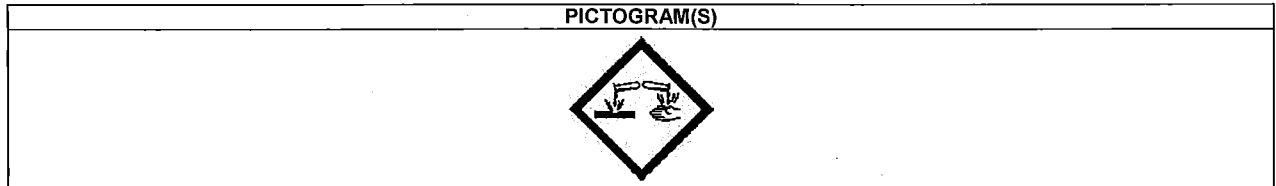
Contact information:
Telephone: (860) 571-5100
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: MAY BE CORROSIVE TO METALS.
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

HAZARD CLASS	HAZARD CATEGORY
CORROSIVE TO METALS	1
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1



Precautionary Statements

Prevention: Keep only in original container. Do not breathe dust or fumes. Wash thoroughly after handling. Wear protective gloves, eye protection, and face protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Immediately call a poison control center or physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

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

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

IDH number: 628186

Product name: BONDERITE C-AK ALUM ETCH 3 AERO known as TURCO ALUMINETCH 3

Hazardous Component(s)	CAS Number	Percentage*
Sodium carbonate	497-19-8	60 - 100
Sodium hydroxide	1310-73-2	10 - 30
Natriumaluminat (NaAlO ₂)	1302-42-7	5 - 10
Trisodium orthophosphate	7601-54-9	1 - 5

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation:	If symptoms are experienced, remove source of contamination or move victim to fresh air. If not breathing, give artificial respiration. Get medical attention.
Skin contact:	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. If irritation persists, repeat flushing and get medical attention. Discard any shoes or clothing items that cannot be decontaminated.
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
Ingestion:	Get immediate medical attention. Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Symptoms:	See Section 11.
Notes to physician:	If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Use media appropriate for surrounding material.
Special firefighting procedures:	Wear full protective clothing. Wear self-contained breathing apparatus.
Unusual fire or explosion hazards:	Not a fire hazard. May react with metals to form flammable hydrogen gas.
Hazardous combustion products:	None identified.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Contain spill. Block any potential routes to water systems. Wear appropriate personal protective equipment.
Clean-up methods:	Avoid the generation of dusts during clean-up. Sweep up or gather material and place in appropriate container for disposal. Flush area with water to remove trace residue. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing dust. Provide adequate ventilation. Wash thoroughly after handling. Keep container closed. Do not reuse the empty container. Considerable heat is generated when water or acid is added, therefore when making solutions always add the caustic to the water or acid with constant stirring. If caustic substance or solution becomes concentrated in one area, or if added too rapidly or if added to hot or cold water a rapid temperature increase can result in dangerous boiling water and/or splashing or may cause immediate violent eruption.

Storage: For safe storage, store at or below 120 °F (48.9 °C)
Store in a cool, dry, well-ventilated area. Guard against dust accumulation of this material.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Sodium carbonate	None	None	None	None
Sodium hydroxide	2 mg/m ³ Ceiling	2 mg/m ³ PEL	None	None
Natriumaluminat (NaAlO ₂)	1 mg/m ³ TWA Respirable fraction.	None	None	None
Trisodium orthophosphate	None	None	5 mg/m ³ STEL	None

Engineering controls: Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection: Wear chemical goggles.

Skin protection: Chemical resistant, impermeable gloves. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Color:	White
Odor:	Odorless
Odor threshold:	Not available.
pH:	> 12.0 (2% solution)
Vapor pressure:	Not available.
Boiling point/range:	Not applicable
Melting point/ range:	Not determined
Specific gravity:	Not available.
Vapor density:	Not determined
Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Autoignition temperature:	Not applicable
Evaporation rate:	Not applicable
Solubility in water:	Complete
Partition coefficient (n-octanol/water):	Not determined
VOC content:	Not available.
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	None identified.
Incompatible materials:	Reaction with strong acids. This product REACTS VIOLENTLY WITH WATER. Adding water to this product may cause localized overheating and splattering.
Reactivity:	Not available.
Conditions to avoid:	Avoid dust formation.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:	Mists, vapors or liquid may cause severe irritation or burns.
Skin contact:	Dust or powder may irritate the skin. Corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation and burns.
Eye contact:	Dust or powder may irritate eye tissue. Rubbing may cause abrasion of cornea. This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.
Ingestion:	May be harmful if swallowed. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Sodium carbonate	Oral LD50 (RAT) = 4,090 mg/kg Inhalation LC50 (RAT, 2 h) = 2.3 mg/l	Irritant, Sensory
Sodium hydroxide	None	Irritant, Corrosive, Eyes
Natriumaluminat (NaAlO ₂)	None	Corrosive, Eyes, Irritant, Lung, Nervous System
Trisodium orthophosphate	Oral LD50 (RAT) = 4.8 mg/kg Oral LD50 (RAT) = > 2,000 mg/kg Dermal LD50 (RABBIT) = >= 2 mg/kg	Corrosive, Eyes, Irritant, Metabolic, Muscle, Vascular

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Sodium carbonate	No	No	No
Sodium hydroxide	No	No	No
Natriumaluminat (NaAlO ₂)	No	No	No
Trisodium orthophosphate	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations. This chemical contains phosphates.

Hazardous waste number: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Corrosive solid, basic, inorganic, n.o.s. (Sodium aluminate, Sodium hydroxide)
Hazard class or division: 8
Identification number: UN 3262
Packing group: II
DOT Hazardous Substance(s): Sodium hydroxide

International Air Transportation (ICAO/IATA)

Proper shipping name: Corrosive solid, basic, inorganic, n.o.s. (Sodium aluminate, Sodium hydroxide)
Hazard class or division: 8
Identification number: UN 3262
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium aluminate, Sodium hydroxide)
Hazard class or division: 8
Identification number: UN 3262
Packing group: II

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis
CERCLA/SARA Section 311/312: Immediate Health, Reactive
CERCLA/SARA Section 313: None above reporting de minimis
CERCLA Reportable quantity: Sodium hydroxide (CAS# 1310-73-2) 1,000 lbs. (454 kg)

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: Updated Contact Information in Section 1.

Prepared by: John DiCerbo, Sr. Regulatory Affairs Specialist
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