

Revision Number: 006.4 Issue date: 02/27/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE C-AK 4181-L AERO

Product type/use: Cleaner

Restriction of Use: None identified

Company address: Henkel Corporation

One Henkel Way Rocky Hill, Connecticut 06067 **IDH number:** 596905

Region: Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGÉNCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC

United States

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.

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR

REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
CORROSIVE TO METALS	1
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2

PICTOGRAM(S)



Precautionary Statements

Response:

Prevention: Keep only in original packaging. Do not breathe vapors, mist, or spray. Wash affected area

thoroughly after handling. Wear protective gloves, clothing, eye and face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off

immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if you feel unwell. 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

Hazardous Component(s)	CAS Number	Percentage*
Sodium hydroxide	1310-73-2	10 - 30
Triethanolamine	102-71-6	5 - 10
Diethanolamine	111-42-2	1 - 5

^{*} Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: If mist or vapor of this product is inhaled, remove person immediately to fresh

air. Seek medical attention if symptoms develop or persist.

Skin contact: For skin contact flush with large amounts of water. Obtain medical attention if

irritation persists.

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.

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: This product is an aqueous mixture which will not burn. If evaporated to

dryness, the solid residue may pose a moderate fire hazard.

Hazardous combustion products: Upon decomposition, this product emits carbon monoxide, carbon dioxide

and/or low molecular weight hydrocarbons.

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: Prevent further leakage or spillage if safe to do so. Dike the spilled material,

where this is possible. Ventilate area. Do not allow product to enter sewer or

waterways.

Clean-up methods: Collect spilled material with an inert absorbent such as sand or vermiculite.

Place in properly labeled closed container. Dispose of according to Federal,

State and local governmental regulations.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Provide adequate ventilation. Avoid

breathing vapors or mists of this product. Wash thoroughly after handling.

Storage: For safe storage, store at or above 40 °F (4.4 °C)

Keep the container tightly closed and in a cool, well-ventilated place. Protect

from freezing.

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 hydroxide	2 mg/m3 Ceiling	2 mg/m3 PEL	None	None
Triethanolamine	5 mg/m3 TWA	None	None	None
Diethanolamine	1 mg/m3 TWA Inhalable fraction and vapor. (SKIN) Inhalable fraction and vapor.	None	None	None

Engineering controls: Provide local and general exhaust ventilation to effectively remove and

prevent buildup of any vapors or mists generated from the handling of this

product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or

vapors, 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: Liquid
Color: Straw
Odor: Mild

Odor threshold:

pH:

> 12.0

pH:

> 12.0

Vapor pressure:

Boiling point/range:

Not determined
> 212 °F (> 100°C)
Melting point/ range:

Not determined

Specific gravity: 1.30 - 1.32 at 25 °C (77°F)

Vapor density: Not determined

Flash point: Aqueous. Does not flash.

Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not determined Flammability: Not applicable **Evaporation rate:** Not applicable Solubility in water: Complete Partition coefficient (n-octanol/water): Not determined **VOC** content: 6.5 % (calculated) Viscosity: Not available.

Decomposition temperature:

IDH number: 596905 Product name: BONDERITE C-AK 4181-L AERO

Not available.

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

IDH number: 596905

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low

molecular weight hydrocarbons.

Incompatible materials: Nitrites may react with organic amines to form nitrosamines which can cause cancer. Reaction

with strong acids.

Reactivity: This product reacts with acids. This product reacts with acids.

Conditions to avoid: Avoid contact with acids.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation: Mists, vapors or liquid may cause severe irritation or burns.

Skin contact: Contact with the skin or mucous membranes will cause severe burns and possible ulceration.

May cause allergic skin reaction.

Eye contact: Contact with the eyes can cause severe burns and permanent eye damage.

Ingestion: Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the

digestive tract.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Sodium hydroxide	None	Irritant, Corrosive, Eyes
Triethanolamine	Oral LD50 (Rat) = 8.0 g/kg Dermal LD50 (Rabbit) = > 20,000 mg/kg	Irritant, Allergen
Diethanolamine	Oral LD50 (Rat) = 710 mg/kg Oral LD50 (Rat) = 1.82 g/kg	Allergen, Corrosive, Irritant, Liver, Respiratory

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Sodium hydroxide	No	No	No
Triethanolamine	No	No	No
Diethanolamine	No	Group 2B	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 product contains a chelating agent.

Hazardous waste number: This product, if discarded directly, would be a characteristic RCRA corrosive

waste (D002). Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

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: Sodium hydroxide solution

Hazard class or division: 8
Identification number: UN 1824

Packing group:

DOT Hazardous Substance(s): Sodium hydroxide, Diethanolamine

International Air Transportation (ICAO/IATA)

Proper shipping name: Sodium hydroxide solution

Hazard class or division: 8

Identification number: UN 1824

Packing group:

Water Transportation (IMO/IMDG)

Proper shipping name: SODIUM HYDROXIDE SOLUTION

Hazard class or division: 8
Identification number: UN 1824
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, Delayed Health

CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Diethanolamine (CAS# 111-42-2).

CERCLA Reportable quantity: Sodium hydroxide (CAS# 1310-73-2) 1,000 lbs. (454 kg)

Diethanolamine (CAS# 111-42-2) 100 lbs. (45.4 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Additional Regulatory Information: This product is controlled for export by the United States Department of Commerce. The

Export Classification Control Number (ECCN) is 1C995.a.2.a

Canada Regulatory Information

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

Substances List.

IDH number: 596905 Product name: BONDERITE C-AK 4181-L AERO

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Regulatory Affairs

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IDH number: 596905 Product name: BONDERITE C-AK 4181-L AERO