



Revision Number: 004.1

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE C-AK 5578-L ALKALINE CLEANER AERO **IDH number:** 2445119
Product type/use: Cleaner
Restriction of Use: None identified **Region:** United States
Company address: **Contact information:**
 Henkel Corporation Telephone: +1 (860) 571-5100
 One Henkel Way MEDICAL EMERGENCY Phone: Poison Control Center
 Rocky Hill, Connecticut 06067 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.
 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
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2

PICTOGRAM(S)



Precautionary Statements

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.
Response: 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

Hazardous Component(s)	CAS Number	Percentage*
Water	7732-18-5	60 - 100
Sodium hydroxide	1310-73-2	10 - 30
Triethanolamine	102-71-6	5 - 10
Sodium gluconate	527-07-1	5 - 10
Diethanolamine	111-42-2	1 - 5
Sodium chloride	7647-14-5	0 - 0.1
sodium glycollate	2836-32-0	0.1 - 1
Sodium xylene sulfonate	1300-72-7	0.1 - 1
D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	0.1 - 1
Aminoether~		0 - 0.1
Sodium sulfate	7757-82-6	0 - 0.1
Monoethanolamine	141-43-5	0 - 0.1
Decan-1-ol	112-30-1	0 - 0.1
Octan-1-ol	111-87-5	0 - 0.1
Sodium formate	141-53-7	0 - 0.1

* 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
Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Water	None	None	None	None
Sodium hydroxide	2 mg/m3 Ceiling	2 mg/m3 PEL	None	None
Triethanolamine	5 mg/m3 TWA	None	None	None
Sodium gluconate	None	None	None	None
Diethanolamine	1 mg/m3 TWA Inhalable fraction and vapor. (SKIN) Inhalable fraction and vapor.	None	None	None
Sodium chloride	None	None	None	None
sodium glycollate	None	None	None	None
Sodium xylene sulfonate	None	None	None	None
D-Glucopyranose, oligomeric, decyl octyl glycosides	None	None	None	None
Aminoether~	None	None	None	None
Sodium sulfate	None	None	None	None
Monoethanolamine	6 ppm STEL 3 ppm TWA	3 ppm (6 mg/m3) PEL	None	None
Decan-1-ol	None	None	None	None
Octan-1-ol	None	None	50 ppm (265 mg/m3) TWA	None
Sodium formate	None	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:	Not available.
pH:	> 12.0
pH:	> 12.0
Vapor pressure:	Not determined
Boiling point/range:	> 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
Partition coefficient (n-octanol/water):	Not determined
VOC content:	6.5 % (calculated)
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	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
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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.
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)	LD50s and LC50s	Immediate and Delayed Health Effects
Water	None	No Target Organs
Sodium hydroxide	None	Irritant, Corrosive, Eyes
Triethanolamine	Oral LD50 (Rat) = 8.0 g/kg Dermal LD50 (Rabbit) = > 20,000 mg/kg	Irritant, Allergen
Sodium gluconate	None	No Target Organs
Diethanolamine	Oral LD50 (Rat) = 710 mg/kg Oral LD50 (Rat) = 1.82 g/kg	Allergen, Corrosive, Irritant, Liver, Respiratory
Sodium chloride	Oral LD50 (Rat) = 3,000 mg/kg Oral LD50 (Mouse) = 4,000 mg/kg	Irritant
sodium glycollate	None	Metabolic
Sodium xylene sulfonate	None	Irritant
D-Glucopyranose, oligomeric, decyl octyl glycosides	None	No Target Organs
Aminoether~	None	No Data
Sodium sulfate	None	Irritant
Monoethanolamine	Oral LD50 (Rat) = 10.2 g/kg Oral LD50 (Mouse) = 700 mg/kg Dermal LD50 (Rabbit) = 1,025 mg/kg	Irritant, Kidney, Liver, Corrosive, Respiratory, Developmental
Decan-1-ol	Oral LD50 (Rat) = 4,720 mg/kg Dermal LD50 (Rabbit) = 3,560 mg/kg	Irritant
Octan-1-ol	Oral LD50 (Mouse) = 1,800 mg/kg Oral LD50 (Rat) = > 5 g/kg Dermal LD50 (Rabbit) = > 5 g/kg	Central nervous system, Irritant
Sodium formate	None	No Data

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

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Water	No	No	No
Sodium hydroxide	No	No	No
Triethanolamine	No	No	No
Sodium gluconate	No	No	No
Diethanolamine	No	Group 2B	No
Sodium chloride	No	No	No
sodium glycollate	No	No	No
Sodium xylene sulfonate	No	No	No
D-Glucopyranose, oligomeric, decyl octyl glycosides	No	No	No
Aminoether~	No	No	No
Sodium sulfate	No	No	No

Monoethanolamine	No	No	No
Decan-1-ol	No	No	No
Octan-1-ol	No	No	No
Sodium formate	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 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: II
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: II

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/NDL 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: New Safety Data Sheet format.

Prepared by: Regulatory Affairs

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