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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE C-AK VTKL AERO known as TURCO VITRO-KLENE **IDH number:** 598651

Product type: Alkaline Cleaner for Industrial Application **Region:** United States

Restriction of Use: None identified **Contact information:**

Company address: Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067
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.
MAY CAUSE RESPIRATORY IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
CORROSIVE TO METALS	1
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)**Precautionary Statements**

Prevention: Keep only in original packaging. Do not breathe dust or fumes. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. 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. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

Storage: Store in a well-ventilated place. Keep container tightly closed. 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 metasilicate	6834-92-0	50 - 60
Sodium hydroxide	1310-73-2	20 - 30
Pentasodium triphosphate	7758-29-4	5 - 10

* 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 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. Discard any shoes or clothing items that cannot be decontaminated. If symptoms develop and persist, get medical attention.
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 unless directed to do so by medical personnel. 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:	Not a fire hazard.
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:	Prevent further leakage or spillage if safe to do so. Contain spill. Block any potential routes to water systems. Isolate area. Keep unnecessary personnel away.
Clean-up methods:	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. Provide adequate ventilation. Avoid breathing dust. Wash thoroughly after handling. 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)
Keep the container tightly closed and in a cool, well-ventilated place.

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 metasilicate	None	None	None	None
Sodium hydroxide	2 mg/m3 Ceiling	2 mg/m3 PEL	None	None
Pentasodium triphosphate	None	None	None	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:	brown
Odor:	odourless
Odor threshold:	Not available.
pH:	> 12.0 (5% solution)
Vapor pressure:	Not applicable
Boiling point/range:	Not applicable
Melting point/ range:	Not determined
Specific gravity:	Not applicable
Vapor density:	Not applicable
Flash point:	None
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Autoignition temperature:	Not applicable
Flammability:	Not applicable
Evaporation rate:	Not applicable
Solubility in water:	Complete
Partition coefficient (n-octanol/water):	Not available.
VOC content:	Not applicable
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:	Acids.
Reactivity:	This product reacts with acids.
Conditions to avoid:	Avoid contact with water. Avoid dust formation. Avoid contact with acids and oxidizing agents.

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation:	Inhalation of dusts of this product may cause severe irritation and burns to the respiratory tract.
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:	Not a likely route of entry. 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 metasilicate	Oral LD50 (Rat) = 1,280 mg/kg Oral LD50 (Mouse) = 2,400 mg/kg	Irritant, Corrosive, Eyes
Sodium hydroxide	None	Irritant, Corrosive, Eyes
Pentasodium triphosphate	None	Corrosive, Irritant, Metabolic

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Sodium metasilicate	No	No	No
Sodium hydroxide	No	No	No
Pentasodium triphosphate	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: No data available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. 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: Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide, Sodium metasilicate)
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 hydroxide, Sodium metasilicate)
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 hydroxide, Sodium metasilicate)
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, Delayed Health, Reactive
CERCLA/SARA Section 313: None above reporting de minimis.

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

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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