



Safety Data Sheet



Revision Number: 003.1

Issue date: 01/28/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	BONDERITE C-AK 4338 AERO ALKALINE CLEANER known as TURCO 4338	IDH number:	596998
Product type/use:	Cleaner	Region:	United States
Restriction of Use:	None identified	Contact information:	Telephone: +1 (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.henkeln.com
Company address:	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: MAY BE CORROSIVE TO METALS.
 TOXIC IF SWALLOWED.
 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
 SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.
 MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR
 REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
CORROSIVE TO METALS	1
ACUTE TOXICITY ORAL	3
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
REPRODUCTIVE TOXICITY	2
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2

PICTOGRAM(S)



Precautionary Statements

Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original packaging. Do not breathe dust or fumes. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, clothing, eye and face protection.
Response:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. 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. IF exposed or concerned: Get medical attention. 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*
Potassium hydroxide	1310-58-3	60 - 80
Potassium permanganate	7722-64-7	10 - 30
sodium fluoride	7681-49-4	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. If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist. If breathing is difficult, give oxygen. Trained personnel should administer 2.5% calcium gluconate through a nebulizer for 20 minutes.

Skin contact:

Immediately flush with large quantities of water for at least 15 minutes. Remove contaminated clothing. GET MEDICAL ATTENTION. Discard any shoes or clothing items that cannot be decontaminated. Remove contaminated clothing and footwear while rinsing the affected area with large amounts of running water for at least 15 minutes. GET IMMEDIATE MEDICAL ATTENTION. If iced solution of 0.13% aqueous Benzalkonium Chloride (Zephiran) or 2.5% calcium gluconate gel is available, rinsing may be limited to 5 minutes, with the soak solution or gel applied as soon as the rinsing is stopped. Gloves should be worn when applying the gel to prevent transfer of HF and secondary burns. If using calcium gluconate gel, it should be continuously re-applied and massaged into the affected area until pain has been relieved for at least 30 minutes. If Benzalkonium Chloride (Zephiran) or calcium gluconate gel is not available, rinsing must continue until medical treatment is provided.

Eye contact:

In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention. Immediately flush affected eye with large amounts of gently flowing water or 0.9% sterile saline solution for at least 15 minutes. Hold eyelid wide open. Get immediate medical attention. Eye flushing should continue during transportation to a doctor.

Ingestion:

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. Get immediate medical attention. Do not induce vomiting. Attempt immediate administration of a fluoride binding substance: milk, chewable calcium carbonate tablets or 4-8 ounces (120-240 ml) of milk of magnesia or a liquid antacid. Avoid large amounts of liquid as it may induce vomiting. Never give anything by mouth to an unconscious person.

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. If cyanosis is severe, intravenous injection of methylene blue, 1 mg/kg body weight, may be of value. Treatment of hypocalcemia associated with corrosive fluoride compounds exposure may be corrected by intravenous calcium gluconate or calcium chloride. Treatment of hypomagnesemia may be corrected by intravenous magnesium sulfate.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Use media appropriate for surrounding material.

Special firefighting procedures:

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

Unusual fire or explosion hazards: Not a fire hazard.
Hazardous combustion products: Irritating and toxic gases or fumes may be released during a fire.

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. Do not allow product to enter sewer or waterways. 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. Keep container closed. Provide adequate ventilation. Wash thoroughly after handling.
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
Potassium hydroxide	2 mg/m3 Ceiling	None	None	None
Potassium permanganate	0.02 mg/m3 TWA (as Mn) Respirable fraction. 0.1 mg/m3 TWA (as Mn) Inhalable fraction.	5 mg/m3 Ceiling (as Mn)	None	None
sodium fluoride	2.5 mg/m3 TWA (as F)	2.5 mg/m3 PEL (as F) 2.5 mg/m3 TWA Dust.	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: Violet
Odor: Slight
Odor threshold: Not available.
pH: > 13
Vapor pressure: Not determined
Boiling point/range: Not determined
Melting point/ range: Not determined
Specific gravity: 0.88 - 0.90
Vapor density: Not applicable

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Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not applicable
Flammability:	Not applicable
Evaporation rate:	Not determined
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. Potassium permanganate is incompatible with alcohols, arsenites, iodides, acids, charcoal, organic substances, generally ferric mercurous salts, hypophosphites, hyposulfites, sulfites, peroxides, oxalates.
Reactivity:	Not available.
Conditions to avoid:	This product is an OXIDIZING AGENT - avoid contact with organic material. High temperatures.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:	Dusts of this product may cause irritation of the nose, throat, and respiratory tract. Mists, vapors or liquid may cause severe irritation or burns.
Skin contact:	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. Contact with the eyes can cause severe burns and permanent eye damage.
Ingestion:	This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. This product may cause methemoglobinemia characterized by a reduction in oxygen carrying capacity of the blood with symptoms including headache, dizziness, flushed face, fatigue, nausea, vomiting, drowsiness, stupor, tremors, uneven heart action, coma and rarely death. Ingestion of large amounts of this product may result in fluoride poisoning including symptoms of calcification of the ligaments and severe bone changes making normal movements painful, mottling of the teeth, pulmonary fibrosis, anemia, anorexia, dental effects, and possibly death.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Potassium hydroxide	Oral LD50 (Rat) = 273 mg/kg Oral LD50 (Rat) = 1.23 g/kg	Corrosive, Irritant
Potassium permanganate	Oral LD50 (Mouse) = 750 mg/kg Oral LD50 (Rat) = 750 mg/kg	Behavioral, Blood, Cardiac, Corrosive, Irritant, Kidney, Liver, Lung, Mutagen, Nervous System, Pancreas, Reproductive, Respiratory, Skin
sodium fluoride	Oral LD50 (Mouse) = 44.3 mg/kg Oral LD50 (Mouse) = 46.0 mg/kg Oral LD50 (Rat) = 32.0 mg/kg Oral LD50 (Rat) = 51.6 mg/kg	Blood, Cardiac, Central nervous system, Corrosive, Gastrointestinal tract, Irritant, Kidney, Metabolic, Muscle, Teeth, Less weight gain and food intake.

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Potassium hydroxide	No	No	No
Potassium permanganate	No	No	No
sodium fluoride	No	No	No

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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.

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: Oxidizing solid, corrosive, n.o.s. (Potassium permanganate, Potassium hydroxide)
Hazard class or division: 5.1 (8)
Identification number: UN 3085
Packing group: II
DOT Hazardous Substance(s): Potassium permanganate, Potassium hydroxide

International Air Transportation (ICAO/IATA)

Proper shipping name: Oxidizing solid, corrosive, n.o.s. (Potassium permanganate, Potassium hydroxide)
Hazard class or division: 5.1 (8)
Identification number: UN 3085
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: OXIDIZING SOLID, CORROSIVE, N.O.S. (Potassium permanganate, Potassium hydroxide)
Hazard class or division: 5.1 (8)
Identification number: UN 3085
Packing group: II
Additional information: IMDG-Code: Segregation group 14 - Permanganates; Segregation group 18 - Alkalis

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) 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: 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). Potassium permanganate (CAS# 7722-64-7).
CERCLA Reportable quantity: Potassium hydroxide (CAS# 1310-58-3) 1,000 lbs. (454 kg)
Potassium permanganate (CAS# 7722-64-7) 100 lbs. (45.4 kg)
sodium fluoride (CAS# 7681-49-4) 1,000 lbs. (454 kg)

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: 4

Prepared by: Product Safety and Regulatory Affairs

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