



Revision Number: 009.0

Issue date: 12/10/2024

1. IDENTIFICATION

Product name: BONDERITE C-AK 4215 NC-LT AERO ALKALINE CLEANER known as TURCO 4215 NC-LT EXPORT ONLY
Product type/Recommended use: Cleaner
Restriction of Use: None identified
Company address: Henkel Corporation
 One Henkel Way
 Rocky Hill, Connecticut 06067

IDH number: 596844

Region: United States

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.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: H315 - CAUSES SKIN IRRITATION.
 H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
 H318 - CAUSES SERIOUS EYE DAMAGE.
 H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	2

PICTOGRAM(S)



Precautionary Statements

Prevention: P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P261 - Avoid breathing dust or fumes.
 P264 - Wash affected area thoroughly after handling.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear protective gloves, clothing, eye and face protection.

Response: P302+P352 - IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 - IF exposed or concerned: Get medical attention.
 P333+P313 - If skin irritation or rash occurs: Get medical attention.
 P362+P364 - Take off contaminated clothing and wash it before reuse.
 P405 - Store locked up.

Storage: P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Disposal:

Other hazards Not available.

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	Weight %*
Sodium tetraborate pentahydrate	12179-04-3	30 - 60
Pentasodium triphosphate	7758-29-4	30 - 60
Sodium nitrate	7631-99-4	5 - 10
Nonylphenol ethoxylate	127087-87-0	5 - 10
Tetrasodium pyrophosphate	7722-88-5	1 - 5
alkali fluorosilicates (Na)	16893-85-9	1 - 5
Diethylene glycol monobutyl ether	112-34-5	1 - 5
sodium benzothiazol-2-yl sulphide	2492-26-4	0.1 - 1

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

Non hazardous components

Actual concentration or concentration range is withheld as a trade secret

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

Inhalation:	If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.
Skin contact:	Immediately wash skin thoroughly with soap and water. 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. If symptoms develop and persist, get medical attention. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Most important symptoms and effects (acute and delayed):	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
Indication of any immediate medical attention / special treatment needed:	Not available.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Use media appropriate for surrounding material.
Improper extinguishing agents:	Not available.
Special firefighting procedures:	Wear full protective clothing. Wear self-contained breathing apparatus.
Unusual fire or explosion hazards:	Not a fire hazard.

Hazardous combustion products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of sulfur.

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. Wear appropriate protective equipment and clothing during clean-up. Do not allow product to enter sewer or waterways.

Clean-up methods:

Scrape up spilled material and place in a closed container for disposal. 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.

Storage:

For safe storage, store between 40 °F (4.4 °C) and 100 °F (37.8 °C). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

Shelf Life Statement: Not available.

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 tetraborate pentahydrate	6 mg/m3 STEL Inhalable fraction. 2 mg/m3 TWA Inhalable fraction.	None	None	None
alkali fluorosilicates (Na)	2.5 mg/m3 TWA (as F) 2.5 mg/m3 TWA (as F)	2.5 mg/m3 PEL (as F) 2.5 mg/m3 TWA Dust. 2.5 mg/m3 PEL (as F) 2.5 mg/m3 TWA Dust.	None	None
Diethylene glycol monobutyl ether	10 ppm TWA Inhalable fraction and vapor.	None	None	50 ppm TWA 75 ppm STEL

Engineering controls:

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

Respiratory protection:

When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH/MSHA approved respiratory protection must be provided.

Eye/face protection:

Safety goggles or safety glasses with side shields.

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:

Mild

Odor threshold:

Not available.

pH:

Not applicable

Vapor pressure:

Not applicable

IDH number: 596844

Product name: BONDERITE C-AK 4215 NC-LT AERO ALKALINE CLEANER known as TURCO 4215
NC-LT EXPORT ONLY

Boiling point/range:	Not applicable
Melting point/ range:	Not determined
Density/Relative density:	Not applicable
Relative vapor density:	Not applicable
Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not applicable
Flammability:	Not flammable.
Evaporation rate:	Not applicable
Solubility:	Complete Water
Partition coefficient n-octanol/water (logarithmic value):	Not determined
VOC content:	Not applicable
Dynamic viscosity:	Not available.
Kinematic viscosity:	Not available.
Particle characteristics:	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. Oxides of sulfur.
Incompatible materials:	Oxidizing agents.
Reactivity:	This product reacts with acids.
Conditions to avoid:	Avoid dust formation.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation:	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
Skin contact:	This product is irritating to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. May cause allergic skin reaction.
Eye contact:	This product may be severely irritating to the eyes.
Ingestion:	Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision. Ingestion of high levels may produce kidney damage. 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. 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.

Hazardous Component(s)	LD50s and LC50s
Sodium tetraborate pentahydrate	None
Pentasodium triphosphate	Inhalation LC50 (Rat, 4 h) = > 0.39 mg/l
Sodium nitrate	Oral LD50 (Rat) = 1,267 mg/kg
Nonylphenol ethoxylate	None
Tetrasodium pyrophosphate	Inhalation LC50 (Rat, 4 h) = > 0.58 mg/l Inhalation LC50 (Rat, 4 h) = > 1.1 mg/l
alkali fluorosilicates (Na)	Oral LD50 (Rat) = 125 mg/kg Oral LD50 (Rat) = 125 mg/kg Inhalation LC50 (Rat, 4 h) = 2.021 mg/l Inhalation LC50 (Rat, 4 h) = 1.814 mg/l Inhalation LC50 (Rat, 4 h) = 1.673 mg/l Inhalation LC50 (Rat, 4 h) = 7.5 mg/m3
Diethylene glycol monobutyl ether	Oral LD50 (Rabbit) = 2,200 mg/kg Oral LD50 (Rat) = 4,500 mg/kg Oral LD50 (Rat) = 5,660 mg/kg Oral LD50 (Rat) = 7,292 mg/kg Oral LD50 (Mouse) = 2,400 mg/kg Oral LD50 (Rat) = 6,600 mg/kg Oral LD50 (Rat) = 6,560 mg/kg Dermal LD50 (Rabbit) = 2,700 mg/kg Dermal LD50 (Rabbit) = 4,120 mg/kg
sodium benzothiazol-2-yl sulphide	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Sodium tetraborate pentahydrate	Irritant		Cardiac Central nervous system Developmental Gastrointestinal Kidney Metabolic Reproductive
Pentasodium triphosphate	Corrosive Irritant		Metabolic
Sodium nitrate	Corrosive Irritant		Blood Central nervous system Gastrointestinal
Nonylphenol ethoxylate			
Tetrasodium pyrophosphate	Corrosive Irritant		Metabolic
alkali fluorosilicates (Na)	Corrosive Irritant		Blood Cardiac Central nervous system Gastrointestinal Kidney Metabolic Muscle Teeth
Diethylene glycol monobutyl ether	Irritant		Blood Central nervous system Kidney
sodium benzothiazol-2-yl sulphide			

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Sodium tetraborate pentahydrate	No	No	No
Pentasodium triphosphate	No	No	No
Sodium nitrate	No	No	No
Nonylphenol ethoxylate	No	No	No
Tetrasodium pyrophosphate	No	No	No
alkali fluorosilicates (Na)	No	No	No
Diethylene glycol monobutyl ether	No	No	No
sodium benzothiazol-2-yl sulphide	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Do not empty into drains / surface water / ground water / soil.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal. This product contains a alkylphenol or nonylphenol ethoxylate.

14. TRANSPORT INFORMATION

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

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

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

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: Ethylene oxide (CAS# 75-21-8). Formaldehyde (CAS# 50-00-0).
CERCLA/SARA Section 313: Please refer to the GHS classification in Section 2
 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). Sodium nitrate (CAS# 7631-99-4). Nonylphenol ethoxylate (CAS# 127087-87-0). Diethylene glycol monobutyl ether (CAS# 112-34-5). 2-Butoxyethanol (CAS# 111-76-2).
California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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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