



Revision Number: 002.3

Issue date: 10/10/2014

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** BONDERITE C-AK 4338 AERO known as TURCO 4338  
**Product type:** Cleaner  
**Restriction of Use:** None identified  
**Company address:** Henkel Corporation  
 One Henkel Way  
 Rocky Hill, Connecticut 06067

**IDH number:** 596998

**Region:** United States

**Contact information:**  
 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.  
 TOXIC IF SWALLOWED.  
 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

| HAZARD CLASS        | HAZARD CATEGORY |
|---------------------|-----------------|
| CORROSIVE TO METALS | 1               |
| ACUTE TOXICITY ORAL | 3               |
| SKIN CORROSION      | 1B              |
| SERIOUS EYE DAMAGE  | 1               |

**PICTOGRAM(S)**



**Precautionary Statements**

**Prevention:** Keep only in original container. Do not breathe dust or fumes. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, eye protection, and face protection.

**Response:** IF SWALLOWED: Immediately call a physician or poison control center. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Immediately call a poison control center or physician. 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 - 100    |
| Potassium permanganate | 7722-64-7  | 10 - 30     |
| Sodium fluoride        | 7681-49-4  | 5 - 10      |

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

|                            |  |
|----------------------------|--|
| <b>Inhalation:</b>         | If symptoms are experienced, remove source of contamination or move victim to fresh air. If not breathing, give artificial respiration. Get medical attention.   |
| <b>Skin contact:</b>       | 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.  |
| <b>Eye contact:</b>        | In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.   |
| <b>Ingestion:</b>          | 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.  |
| <b>Symptoms:</b>           | See Section 11.  |
| <b>Notes to physician:</b> | 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

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Use media appropriate for surrounding material.  |
| <b>Special firefighting procedures:</b>   | Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products. |
| <b>Unusual fire or explosion hazards:</b> | Not a fire hazard.   |
| <b>Hazardous combustion products:</b>     | 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.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Contain spill. Do not allow product to enter sewer or waterways. Wear appropriate personal protective equipment.  |
| <b>Clean-up methods:</b>          | 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

|                  |  |
|------------------|--|
| <b>Handling:</b> | Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Provide adequate ventilation. Wash thoroughly after handling. |
| <b>Storage:</b>  | For safe storage, store at or below 120 °F (48.9 °C)<br>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/m <sup>3</sup> Ceiling  | None  | None      | None  |
| Potassium permanganate | 0.02 mg/m <sup>3</sup> TWA (as Mn) Respirable fraction.<br>0.1 mg/m <sup>3</sup> TWA (as Mn) Inhalable fraction. | 5 mg/m <sup>3</sup> Ceiling (as Mn)                                 | None      | None  |
| Sodium fluoride        | 2.5 mg/m <sup>3</sup> TWA (as F)   | 2.5 mg/m <sup>3</sup> PEL (as F)<br>2.5 mg/m <sup>3</sup> TWA Dust. | None      | None  |

|                                |  |
|--------------------------------|--|
| <b>Engineering controls:</b>   | Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.                       |
| <b>Respiratory protection:</b> | If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA respiratory protection must be provided. |
| <b>Eye/face protection:</b>    | Wear chemical goggles.   |
| <b>Skin protection:</b>        | Chemical resistant, impermeable gloves. Use of impervious apron and boots are recommended.   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                |
|---|----------------|
| <b>Physical state:</b>                          | Solid          |
| <b>Color:</b>                                   | violet         |
| <b>Odor:</b>                                    | Slight         |
| <b>Odor threshold:</b>                          | Not available. |
| <b>pH:</b>                                      | > 13           |
| <b>Vapor pressure:</b>                          | Not determined |
| <b>Boiling point/range:</b>                     | Not determined |
| <b>Melting point/ range:</b>                    | Not determined |
| <b>Specific gravity:</b>                        | 0.88 - 0.90    |
| <b>Vapor density:</b>                           | Not applicable |
| <b>Flash point:</b>                             | Not applicable |
| <b>Flammable/Explosive limits - lower:</b>      | Not available. |
| <b>Flammable/Explosive limits - upper:</b>      | Not available. |
| <b>Autoignition temperature:</b>                | Not applicable |
| <b>Evaporation rate:</b>                        | Not determined |
| <b>Solubility in water:</b>                     | Complete       |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined |
| <b>VOC content:</b>                             | Not available. |
| <b>Viscosity:</b>                               | Not available. |
| <b>Decomposition temperature:</b>               | Not available. |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable at normal conditions.   |
| <b>Hazardous reactions:</b>              | Will not occur.  |
| <b>Hazardous decomposition products:</b> | None identified.   |
| <b>Incompatible materials:</b>           | Reaction with strong acids. Potassium permanganate is incompatible with alcohols, arsenites, iodides, acids, charcoal, organic substances, generally ferric or mercurous salts, hypophosphites, hyposulfites, sulfites, peroxides, oxalates. |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | This product is an OXIDIZING AGENT - avoid contact with organic material. High temperatures.   |

## 11. TOXICOLOGICAL INFORMATION

**Relevant routes of exposure:** Not available.

### Potential Health Effects/Symptoms

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Dusts of this product may cause irritation of the nose, throat, and respiratory tract. Mists, vapors or liquid may cause severe irritation or burns.   |
| <b>Skin contact:</b> | Corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation and burns.  |
| <b>Eye contact:</b>  | 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.   |
| <b>Ingestion:</b>    | 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<br>Oral LD50 (RAT) = 1.23 g/kg   | Corrosive, Irritant  |
| Potassium permanganate | 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 (RAT) = 32.0 mg/kg<br>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                                       |

## 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.

## 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 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:** 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: New Safety Data Sheet format.

**Prepared by:** Cheryl Neason, Regulatory Affairs Specialist

**Issue date:** 10/10/2014

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