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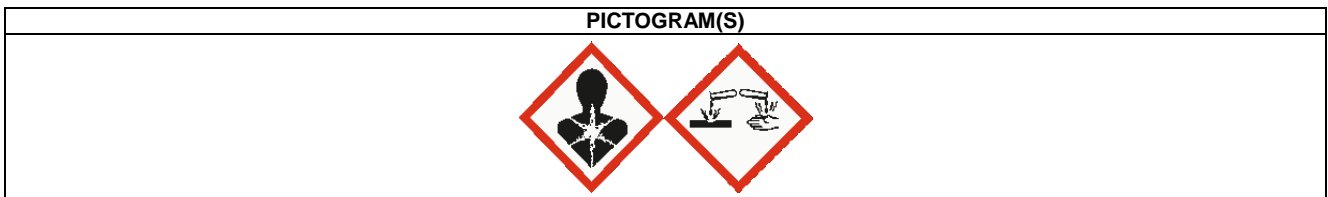
**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** BONDERITE C-AK 56 ALKALINE CLEANER known as RIDOLINE 56  
**IDH number:** 594819  
**Product type/use:** Alkaline Cleaner for Industrial Application  
**Restriction of Use:** None identified  
**Region:** United States  
**Company address:** Henkel Corporation, One Henkel Way, Rocky Hill, Connecticut 06067  
**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:** CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

| HAZARD CLASS          | HAZARD CATEGORY |
|-----------------------|-----------------|
| SKIN CORROSION        | 1C - Corrosive  |
| SERIOUS EYE DAMAGE    | 1               |
| REPRODUCTIVE TOXICITY | 2               |



**Precautionary Statements**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. IF exposed or concerned: Get medical attention. Wash contaminated clothing before reuse.  
**Storage:** Store locked up.  
**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   | 1 - 5       |
| Potassium silicate      | 1312-76-1   | 1 - 5       |
| 4-Nonylphenol, branched | 127087-87-0 | 1 - 5       |
| Borax                   | 1330-43-4   | 1 - 5       |

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

#### 4. FIRST AID MEASURES

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.  |
| <b>Skin contact:</b> | For skin contact flush with large amounts of water. Obtain medical attention if irritation persists. Remove contaminated clothing and footwear.  |
| <b>Eye contact:</b>  | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  |
| <b>Ingestion:</b>    | Get 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. |
| <b>Symptoms:</b>     | See Section 11.  |

#### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear full protective clothing. Wear self-contained breathing apparatus.  |
| <b>Unusual fire or explosion hazards:</b> | May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.         |
| <b>Hazardous combustion products:</b>     | 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.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Prevent further leakage or spillage if safe to do so. Wear appropriate personal protective equipment.   |
| <b>Clean-up methods:</b>          | Absorb spill with inert material. Shovel material into appropriate container for disposal. 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 vapors or mists of this product. Provide adequate ventilation. Wash thoroughly after handling. Do not take internally. For industrial use only. |
| <b>Storage:</b>  | Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. 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 |
|-------------------------|---|----------|-----------|-------|
| Potassium hydroxide     | 2 mg/m3 Ceiling   | None     | None      | None  |
| Potassium silicate      | None  | None     | None      | None  |
| 4-Nonylphenol, branched | None  | None     | None      | None  |
| Borax                   | 2 mg/m3 TWA<br>Inhalable fraction.<br>6 mg/m3 STEL<br>Inhalable fraction. | None     | None      | None  |

|                                |  |
|--------------------------------|--|
| <b>Engineering controls:</b>   | Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.        |
| <b>Respiratory protection:</b> | If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.      |
| <b>Eye/face protection:</b>    | Wear chemical goggles; face shield (if splashing is possible).   |
| <b>Skin protection:</b>        | Chemical resistant, impermeable gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                              |
|---|------------------------------|
| <b>Physical state:</b>                          | Liquid                       |
| <b>Color:</b>                                   | Yellow                       |
| <b>Odor:</b>                                    | Pungent                      |
| <b>Odor threshold:</b>                          | Not available.               |
| <b>pH:</b>                                      | 13 - 13.8                    |
| <b>Vapor pressure:</b>                          | Not determined               |
| <b>Boiling point/range:</b>                     | > 100 °C (> 212°F)calculated |
| <b>Melting point/ range:</b>                    | Not determined               |
| <b>Specific gravity:</b>                        | 1.09 - 1.12                  |
| <b>Vapor density:</b>                           | Not determined               |
| <b>Flash point:</b>                             | Not applicable               |
| <b>Flammable/Explosive limits - lower:</b>      | Not applicable               |
| <b>Flammable/Explosive limits - upper:</b>      | Not applicable               |
| <b>Autoignition temperature:</b>                | Not applicable               |
| <b>Flammability:</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>              | None under normal processing.   |
| <b>Hazardous decomposition products:</b> | Irritating and toxic gases or fumes may be released during a fire.  |
| <b>Incompatible materials:</b>           | This product reacts with acids. Adding water to this product may cause localized overheating and splattering. |
| <b>Reactivity:</b>                       | This product reacts with acids.   |
| <b>Conditions to avoid:</b>              | Store away from incompatible materials.   |

## 11. TOXICOLOGICAL INFORMATION

|                                     |                        |
|-------------------------------------|------------------------|
| <b>Relevant routes of exposure:</b> | Skin, Inhalation, Eyes |
|-------------------------------------|------------------------|

### Potential Health Effects/Symptoms

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Mists, vapors or liquid may cause severe irritation or burns. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. |
| <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>  | This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.   |
| <b>Ingestion:</b>    | This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.  |

| 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 silicate      | Inhalation LC50 (Rat, 4 h) = > 2.06 mg/l  | Corrosive, Irritant                               |
| 4-Nonylphenol, branched | None  | No Target Organs                                  |
| Borax                   | Oral LD50 (Rat) = 2,660 mg/kg<br>Dermal LD50 (Rabbit) = > 1,055 mg/kg<br>Inhalation LC50 (Rat, 4 h) = > 0.16 mg/l<br>Inhalation LC50 (Rat, 4 h) = > 2.04 mg/l<br>Inhalation LC50 (Rat, 4 h) = > 2.12 mg/l<br>Inhalation LC50 (Rat, 4 h) = > 2.03 mg/l | Irritant, Skin, Less weight gain and food intake. |

| Hazardous Component(s)  | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|-------------------------|----------------|-----------------|--|
| Potassium hydroxide     | No             | No              | No                                       |
| Potassium silicate      | No             | No              | No                                       |
| 4-Nonylphenol, branched | No             | No              | No                                       |
| Borax                   | 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. 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 package/configuration.

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

**Proper shipping name:** Potassium hydroxide, solution  
**Hazard class or division:** 8  
**Identification number:** UN 1814  
**Packing group:** III  
**DOT Hazardous Substance(s):** Potassium hydroxide

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Potassium hydroxide solution  
**Hazard class or division:** 8  
**Identification number:** UN 1814  
**Packing group:** III

### Water Transportation (IMO/IMDG)

**Proper shipping name:** POTASSIUM HYDROXIDE SOLUTION  
**Hazard class or division:** 8  
**Identification number:** UN 1814  
**Packing group:** III

## 15. REGULATORY INFORMATION

### United States Regulatory Information

|   |  |
|---|--|
| <b>TSCA 8 (b) Inventory Status:</b>     | All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.   |
| <b>TSCA 12 (b) Export Notification:</b> | None above reporting de minimis  |
| <b>CERCLA/SARA Section 302 EHS:</b>     | None above reporting de minimis.   |
| <b>CERCLA/SARA Section 311/312:</b>     | Immediate Health, Delayed Health, Reactive   |
| <b>CERCLA/SARA Section 313:</b>         | 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). 4-Nonylphenol, branched (CAS# 127087-87-0).<br>Potassium hydroxide (CAS# 1310-58-3) 1,000 lbs. (454 kg) |
| <b>CERCLA Reportable quantity:</b>      | Potassium hydroxide (CAS# 1310-58-3) 1,000 lbs. (454 kg)   |
| <b>California Proposition 65:</b>       | This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. This product contains a chemical known in the State of California to cause cancer.  |

### Canada Regulatory Information

|                              |   |
|------------------------------|---|
| <b>CEPA DSL/NDSL Status:</b> | One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-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

**Issue date:** 05/02/2022

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