**Revision Number:** 006.0

**Issue date:** 04/30/2020

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** **LOCTITE PC 7234 known as Nordbak High Temp Brush Cerami**
**IDH number:** 702209
**Product type/use:** Epoxy Hardener
**Item number:** 96433_297000
**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: | HARMFUL IF SWALLOWED.<br>CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.<br>MAY CAUSE AN ALLERGIC SKIN REACTION. |

| HAZARD CLASS | HAZARD CATEGORY |
|---|---|
| ACUTE TOXICITY ORAL | 4 |
| SKIN CORROSION | 1C - Corrosive |
| SERIOUS EYE DAMAGE | 1 |
| SKIN SENSITIZATION | 1 |

**PICTOGRAM(S)**

**Precautionary Statements**

**Prevention:** Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.

**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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 skin irritation or rash occurs: 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* |
|---|---|---|
| Formaldehyde, polymer with benzenamine, hydrogenated | 135108-88-2 | 30 - 60 |
| 4,4'-Methylenebis(cyclohexylamine) | 1761-71-3 | 30 - 60 |

| | | |
|---|---|---|
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2 | 5 - 10 |
| 4-nonylphenol, branched | 84852-15-3 | 1 - 5 |
| Bis[(dimethylamino)methyl]phenol | 71074-89-0 | 1 - 5 |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | 0.1 - 1 |

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

## 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Skin contact:** Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

**Symptoms:** See Section 11.

## 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide.

**Special firefighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Unusual fire or explosion hazards:** Burning produces obnoxious and toxic fumes. Personnel in vicinity and downwind should be evacuated. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses.

**Hazardous combustion products:** Oxides of carbon. Oxides of nitrogen. Ammonia. Nitric acid. Toxic fumes. Irritating vapors.

## 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:** Do not allow product to enter sewer or waterways.

**Clean-up methods:** Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal.

## 7. HANDLING AND STORAGE

**Handling:** Do not taste or swallow. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation. Keep container closed.

**Storage:** Store in original container until ready to use. Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame.

## 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 |
|---|---|---|---|---|
| Formaldehyde, polymer with benzenamine, hydrogenated | None | None | None | None |
| 4,4'-Methylenebis(cyclohexylamine) | None | None | None | None |
| 2,4,6-tris(dimethylaminomethyl)phenol | None | None | None | None |
| 4-nonylphenol, branched | None | None | None | None |
| Bis[(dimethylamino)methyl]phenol | None | None | None | None |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | None | None | None | None |

**Engineering controls:** Use local exhaust ventilation if the potential for airborne exposure exists.

**Respiratory protection:** Use a NIOSH approved respirator if ventilation is inadequate.

**Eye/face protection:** Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

**Skin protection:** Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Viscous, Liquid
**Color:** Amber
**Odor:** Ammoniacal
**Odor threshold:** Not available.
**pH:** Not applicable
**Vapor pressure:** Not available.
**Boiling point/range:** Not available.
**Melting point/ range:** Not available.
**Specific gravity:** 0.98
**Vapor density:** Not available.
**Flash point:** > 93 °C (> 199.4 °F) ; Estimated
**Flammable/Explosive limits - lower:** Not available.
**Flammable/Explosive limits - upper:** Not available.
**Autoignition temperature:** Not available.
**Flammability:** Not applicable
**Evaporation rate:** Not available.
**Solubility in water:** Insoluble
**Partition coefficient (n-octanol/water):** Not available.
**VOC content:** 0 %; 0 g/l (value for resin and hardener together)
**Viscosity:** Not available.
**Decomposition temperature:** Not available.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of storage and use.

**Hazardous reactions:** None under normal processing.

**Hazardous decomposition products:** Oxides of carbon. Oxides of nitrogen. Ammonia. Nitric acid. Toxic fumes. Irritating vapors.

**Incompatible materials:** Strong acids. Strong oxidizing agents. Peroxides. Sodium hypochlorite. This product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

**Reactivity:** Not available.

**Conditions to avoid:** Keep away from heat, ignition sources and incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

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

**Potential Health Effects/Symptoms**

**Inhalation:** May cause irritation to nose and throat.
**Skin contact:** Causes skin burns. May cause allergic skin reaction.
**Eye contact:** Causes serious eye damage.
**Ingestion:** Harmful if swallowed. If ingested, severe burns of the mouth and throat may occur, as well as perforation of the esophagus and the stomach.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|---|---|---|
| Formaldehyde, polymer with benzenamine, hydrogenated | None | No Records |
| 4,4'-Methylenebis(cyclohexylamine) | None | Irritant, Allergen |
| 2,4,6-tris(dimethylaminomethyl)phenol | None | Irritant, Allergen |
| 4-nonylphenol, branched | None | Irritant, Corrosive |
| Bis[(dimethylamino)methyl]phenol | None | No Records |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | None | Irritant, Allergen |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|---|---|---|
| Formaldehyde, polymer with benzenamine, hydrogenated | No | No | No |
| 4,4'-Methylenebis(cyclohexylamine) | No | No | No |
| 2,4,6-tris(dimethylaminomethyl)phenol | No | No | No |
| 4-nonylphenol, branched | No | No | No |
| Bis[(dimethylamino)methyl]phenol | No | No | No |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | No | No | No |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not 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:** It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

## 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:** Amines, liquid, corrosive, n.o.s. (cycloaliphatic amine, 4,4-methylenebis-cyclohexylamine)
**Hazard class or division:** 8
**Identification number:** UN 2735
**Packing group:** III

**International Air Transportation (ICAO/IATA)**
**Proper shipping name:** Amines, liquid, corrosive, n.o.s. (cycloaliphatic amine, 4,4-methylenebis-cyclohexylamine)
**Hazard class or division:** 8
**Identification number:** UN 2735
**Packing group:** III

**Water Transportation (IMO/IMDG)**

| | |
|---|---|
| **Proper shipping name:** | AMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic amine, 4,4-methylenebis-cyclohexylamine) |
| **Hazard class or division:** | 8 |
| **Identification number:** | UN 2735 |
| **Packing group:** | III |
| **Marine pollutant:** | 4,4-methylenebis-cyclohexylamine |

## 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:** | Alkyl phenol (CAS# 84852-15-3). |
| **CERCLA/SARA Section 302 EHS:** | None above reporting de minimis. |
| **CERCLA/SARA Section 311/312:** | Immediate Health |
| **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). 4-nonylphenol, branched (CAS# 84852-15-3). |
| **California Proposition 65:** | This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. |

**Canada Regulatory Information**

| | |
|---|---|
| **CEPA DSL/NDSL Status:** | Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details. |

## 16. OTHER INFORMATION

**This safety data sheet contains changes from the previous version in sections:** 2,3,8,10,11,15

**Prepared by:** Product Safety and Regulatory Affairs

**Issue date:** 04/30/2020

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910.1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.