**Revision Number:** 007.0

**Issue date:** 07/22/2025

## 1. IDENTIFICATION

**Product name:** **LOCTITE EA 1C B**
**Product type/ Recommended use:** Part B of 2-Component Epoxy Adhesive.
**Restriction of Use:** None identified
**Company address:**
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

**IDH number:** 1377346
**Item number:** 1377344_1320207

**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
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: CORROSIVE TO THE RESPIRATORY TRACT.
H314 - CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
H331 - TOXIC IF INHALED.
H334 - MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.
H335 - MAY CAUSE RESPIRATORY IRRITATION.
H350 - MAY CAUSE CANCER.
H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.
H372 - CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

| HAZARD CLASS | HAZARD CATEGORY |
|---|---|
| ACUTE TOXICITY INHALATION | 3 |
| SKIN CORROSION | 1 |
| SERIOUS EYE DAMAGE | 1 |
| RESPIRATORY SENSITIZATION | 1 |
| SKIN SENSITIZATION | 1 |
| CARCINOGENICITY | 1A |
| REPRODUCTIVE TOXICITY | 2 |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3 |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 1 |

**PICTOGRAM(S)**



**Precautionary Statements**

**Prevention:**
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash affected area thoroughly after handling.

| | |
|---|---|
| | P270 - Do not eat, drink or smoke when using this product.<br>P271 - Use only outdoors or in a well-ventilated area.<br>P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P280 - Wear protective gloves, clothing, eye and face protection.<br>P284 - [In case of inadequate ventilation] wear respiratory protection. |
| **Response:** | P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.<br>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing.<br>P304+P340+P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P308+P313 - IF exposed or concerned: Get medical attention.<br>P333+P313 - If skin irritation or rash occurs: Get medical attention.<br>P342+P311 - If experiencing respiratory symptoms: Call a poison center or physician.<br>P362+P364 - Take off contaminated clothing and wash it before reuse. |
| **Storage:** | P403+P233 - Store in a well-ventilated place. Keep container tightly closed.<br>P405 - Store locked up. |
| **Disposal:** | P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations. |

**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 %* |
|---|---|---|
| Talc | 14807-96-6 | 30 - 60 |
| Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct | 68610-56-0 | 10 - 30 |
| Diethylenetriamine | 111-40-0 | 10 - 30 |
| Quartz (SiO2), <1% respirable | 14808-60-7 | 10 - 30 |
| 4,4'-Isopropylidenediphenol | 80-05-7 | 1 - 5 |
| 2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane | 3388-04-3 | 0.1 - 1 |
| Quartz (SiO2) respirable particulates (RCS) >=10% | 14808-60-7 | 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

### First Aid Measures by likely routes of exposure

**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). Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, 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 immediate medical attention.

**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:** | Water spray (fog), foam, dry chemical or carbon dioxide. |
| **Improper extinguishing agents:** | Not available. |
| **Special firefighting procedures:** | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. |
| **Unusual fire or explosion hazards:** | In case of fire, keep containers cool with water spray. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. |
| **Hazardous combustion products:** | Oxides of carbon. Oxides of nitrogen. Phenolics. Ammonia. Halogenated compounds. 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:** | Remove all sources of ignition. 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:** | 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. Refer to Section 8. |
| **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. |

**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 |
|---|---|---|---|---|
| Talc | 2 mg/m3 TWA Respirable fraction. | 0.1 mg/m3 TWA Respirable<br>20 MPPCF TWA<br>2.4 MPPCF TWA Respirable | None | 50 ppm |
| Diethylenetriamine | 1 ppm TWA (SKIN) | None | None | None |
| Quartz (SiO2), <1% respirable | 0.025 mg/m3 TWA Respirable fraction. | 0.05 mg/m3 TWA (Respirable dust.)<br>(Respirable dust.) 0.025 mg/m3 OSHA_ACT<br>(Respirable dust.) 0.05 mg/m3 PEL Respirable dust.<br>2.4 MPPCF TWA Respirable<br>0.1 mg/m3 TWA Respirable | None | None |
| Quartz (SiO2) respirable particulates (RCS) >=10% | 0.025 mg/m3 TWA Respirable fraction. | 0.05 mg/m3 TWA (Respirable dust.)<br>(Respirable dust.) 0.025 mg/m3 OSHA_ACT<br>(Respirable dust.) 0.05 mg/m3 PEL Respirable dust.<br>2.4 MPPCF TWA Respirable<br>0.1 mg/m3 TWA Respirable | None | None |

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

**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. Safety showers and eye wash stations should be available.

**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:** Liquid, Viscous
**Color:** Green
**Odor:** Ammoniacal, Strong
**Odor threshold:** Not available.
**pH:** Not available.
**Vapor pressure:** < 700 mbar (20 °C (68°F))
**Boiling point/range:** > 100 °C (> 212°F)1,013 hPa
**Melting point/ range:** Not applicable, Product is a liquid
**Density/Relative density:** 1.65
**Relative vapor density**: > 1 20 °C
**Flash point:** > 100 °C (> 212°F)
**Flammable/Explosive limits - lower:** Not available.
**Flammable/Explosive limits - upper:** Not available.
**Autoignition temperature:** Not available.
**Flammability**: The product is not flammable.
**Evaporation rate:** Not available.
**Solubility:** Partially miscible Water
**Partition coefficient n-octanol/water (logarithmic value)**: Not available.
**VOC content:** 0.57 g/l EPA Method 24

| | |
|---|---|
| **Dynamic viscosity:** | 500,000 - 900,000 cp |
| **Kinematic viscosity:** | > 20.5 mm2/s |
| **Particle characteristics:** | Not applicable, Product is a liquid |
| **Decomposition temperature:** | Not available. |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Stability**: | Stable under normal conditions of storage and use. |
| **Hazardous reactions:** | Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers. |
| **Hazardous decomposition products:** | Oxides of carbon. Oxides of nitrogen. Phenolics. Ammonia. Halogenated compounds. Irritating vapors. |
| **Incompatible materials:** | Strong bases. Strong oxidizing agents. Amines. Water Strong acids. Ketones. Nitrites. Alcohols. Aldehydes. Metals. Acrylates. |
| **Reactivity:** | Not available. |
| **Conditions to avoid:** | Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. Excessive heat. Avoid temperatures above 38°C (100°F). Store away from incompatible materials. |

## 11. TOXICOLOGICAL INFORMATION

| | |
|---|---|
| **Likely routes of exposure**: | Skin, Inhalation, Eyes, Ingestion |

**Potential Health Effects/Symptoms**

**Inhalation:** Inhalation of vapors or mists of the product may be irritating to the respiratory system. May cause allergic respiratory reaction. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed (up to several hours after exposure). Abrasion of cured material such as by sanding or grinding could release respirable particles of silica quartz, a cancer hazard by inhalation. Normal use of this product causes no such release. May irritate the nose and respiratory system.

**Skin contact:** Corrosive to skin. Causes skin burns. May cause allergic skin reaction.

**Eye contact:** Causes serious eye damage.

**Ingestion:** Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed. May cause burns of mouth and throat if swallowed.

| Hazardous Component(s) | LD50s and LC50s |
|---|---|
| Talc | None |
| Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct | None |
| Diethylenetriamine | Oral LD50 (Rat) Approximate 1,140 mg/kg<br>Oral LD50 (Rat) = 1,080 mg/kg<br>Oral LD50 (Rat) = 2.33 g/kg |
| Quartz (SiO2), <1% respirable | None |
| 4,4'-Isopropylidenediphenol | Oral LD50 (Rat) = 4,100 mg/kg<br>Oral LD50 (Rat) = 3,300 mg/kg |
| 2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane | None |
| Quartz (SiO2) respirable particulates (RCS) >=10% | None |

| Hazardous Component(s) | Immediate Health Effects | Delayed Health Effects | Chronic Health Effects |
|---|---|---|---|
| Talc | Irritant | | Lung<br>Some evidence of carcinogenicity |
| Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct | | | |
| Diethylenetriamine | Irritant | Allergen | Eyes |
| Quartz (SiO2), <1% respirable | | | Immune system<br>Lung<br>Some evidence of carcinogenicity |
| 4,4'-Isopropylidenediphenol | Irritant | Allergen | Blood<br>Kidney<br>Reproductive<br>Spleen |
| 2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane | Irritant | Allergen | |
| Quartz (SiO2) respirable particulates (RCS) >=10% | | | |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|---|---|---|
| Talc | No | Group 2A | No |
| Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct | No | No | No |
| Diethylenetriamine | No | No | No |
| Quartz (SiO2), <1% respirable | Known To Be Human Carcinogen. | Group 1 | Yes |
| 4,4'-Isopropylidenediphenol | No | No | No |
| 2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane | No | No | No |
| Quartz (SiO2) respirable particulates (RCS) >=10% | Known To Be Human Carcinogen. | Group 1 | Yes |

## 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.

## 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:** | Amines, liquid, corrosive, n.o.s. (Diethylenetriamine) |
| **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. (Diethylenetriamine) |
| **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. (Diethylenetriamine, 4,4'-Isopropylidenediphenol) |
| **Hazard class or division:** | 8 |
| **Identification number:** | UN 2735 |
| **Packing group:** | III |
| **Marine pollutant:** | 4,4'-Isopropylidenediphenol |

## 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:** | Please refer to the GHS classification in Section 2 |
| **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). 4,4'-Isopropylidenediphenol (CAS# 80-05-7). |
| **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/NDSL 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:** 2

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

**Issue date:** 07/22/2025

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