



Revision Number: 003.0

Issue date: 01/17/2025

1. IDENTIFICATION

Product name: LOCTITE EA 9309.3NA AERO PART B 50GR
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: 1043779
Item number: AB9354319
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: H314 - CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
 H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
 H332 - HARMFUL IF INHALED.
 H334 - MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.
 H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

| HAZARD CLASS | HAZARD CATEGORY |
|---------------------------|-----------------|
| ACUTE TOXICITY INHALATION | 4 |
| SKIN CORROSION | 1 |
| SERIOUS EYE DAMAGE | 1 |
| RESPIRATORY SENSITIZATION | 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.
 P260 - Do not breathe vapors, mist, or spray.
 P264 - Wash affected area thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear protective gloves, clothing, eye and face protection.
 P284 - [In case of inadequate ventilation] wear respiratory protection.

Response:

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing.
 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.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IDH number: 1043779

Product name: LOCTITE EA 9309.3NA AERO PART B 50GR

Storage:
Disposal:

P308+P313 - IF exposed or concerned: Get medical attention.
P333+P313 - If skin irritation or rash occurs: Get medical attention.
P342+P311 - If experiencing respiratory symptoms: Call a poison center or physician.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.
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 %* |
|--|------------|-----------|
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | 4246-51-9 | 80 - 100 |
| N-Aminoethylpiperazine | 140-31-8 | 5 - 10 |
| Diethylenetriamine | 111-40-0 | 1 - 5 |
| 2-[2-(3-Aminopropoxy)ethoxy]ethanol | 112-33-4 | 1 - 5 |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | 1 - 5 |
| Phenol | 108-95-2 | 0.1 - 1 |
| 2-(2-aminoethylamino)ethanol | 111-41-1 | 0.1 - 1 |
| 3,6-diazaoctanethylenediamine | 112-24-3 | 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. Remove contaminated clothing and footwear. 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. Do not induce vomiting. |
| 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: | Treat symptomatically and supportively. |

5. FIRE FIGHTING MEASURES

| | |
|---|--|
| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. |
| Improper extinguishing agents: | Not available. |
| Special firefighting procedures: | Wear full protective clothing. Wear self-contained breathing apparatus. |
| Unusual fire or explosion hazards: | May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses. |

Hazardous combustion products:

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

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. 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:**

For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in product literature. Do not heat Part B at temperatures greater than 100 °C (212 °F). This material may self-react at higher temperatures and cause an exotherm. The exotherm has the potential for release of excessive energy and toxic gasses. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. Do not cut, grind, weld, or drill on or near this container.

Storage:

For safe storage, store between 0 °C (32°F) and 25 °C (77°F). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

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 |
|-------------------------------|------------------|-----------------------------|----------------------------|-------|
| Diethylenetriamine | 1 ppm TWA (SKIN) | None | None | None |
| Phenol | 5 ppm TWA (SKIN) | 5 ppm (19 mg/m3) PEL (SKIN) | None | None |
| 3,6-diazaoctanethylenediamine | None | None | 1 ppm (6 mg/m3) TWA (SKIN) | None |

Engineering controls:

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Respiratory protection:

If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Wear impervious gloves for prolonged contact. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical state:**

Gel

Color:

Blue

Odor:

Ammoniacal

Odor threshold:

Not available.

pH:

12 Not applicable

pH:

Not applicable

pH:

> 7 Not applicable

Vapor pressure:

0.2 hPa (20 °C (68°F))

Boiling point/range:

> 93 °C (> 199.4 °F) 1,013.200 hPa Not applicable

Melting point/range:

Not applicable, Product is a liquid

| | |
|--|---|
| Density/Relative density: | 1 |
| Relative vapor density: | 8.45 20 °C |
| Flash point: | > 93 °C (> 199.4 °F) ; Estimated |
| Flammable/Explosive limits - lower: | Not available. |
| Flammable/Explosive limits - upper: | Not available. |
| Autoignition temperature: | Not applicable |
| Flammability: | Not applicable |
| Evaporation rate: | Not determined |
| Solubility: | largely soluble Water |
| Solubility: | Negligible Water |
| Solubility: | Partially miscible Water |
| Partition coefficient n-octanol/water (logarithmic value): | Not available. |
| VOC content: | < 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated) |
| Dynamic viscosity: | Not available. |
| Kinematic viscosity: | 6 mm ² /s |
| Particle characteristics: | Not applicable, Product is a liquid |
| Decomposition temperature: | > 200 °C |

10. STABILITY AND REACTIVITY

| | |
|-----------------------------------|---|
| Stability: | Stable at normal conditions. |
| Hazardous reactions: | May occur. |
| Hazardous decomposition products: | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen. |
| Incompatible materials: | Keep away from strong oxidizing agents, strong Lewis or mineral acids. |
| Reactivity: | Not available. |
| Conditions to avoid: | Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Do not heat mixed adhesive unless curing surfaces to be bonded. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. |

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

| | |
|----------------------|--|
| Inhalation: | Mists, vapors or liquid may cause severe irritation or burns. May cause allergic respiratory reaction. Causes respiratory tract irritation. |
| Skin contact: | May cause allergic skin reaction in susceptible individuals. This product is severely irritating to the skin and may cause burns. Mists, vapors or liquid may cause severe irritation or burns. May cause allergic skin reaction. Causes skin burns. |
| Eye contact: | This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness. Causes serious eye damage. |
| Ingestion: | Not expected under normal conditions of use. May cause gastrointestinal tract irritation if swallowed. |

| Hazardous Component(s) | LD50s and LC50s |
|--|--|
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | None |
| N-Aminoethylpiperazine | None |
| Diethylenetriamine | Oral LD50 (Rat) Approximate 1,140 mg/kg Oral LD50 (Rat) = 1,080 mg/kg Oral LD50 (Rat) = 2.33 g/kg |
| 2-[2-(3-Aminopropoxy)ethoxy]ethanol | None |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Inhalation LC50 (Rat, 4 h) = > 1.49 - < 2.44 mg/l |
| Phenol | Oral LD50 (Mouse) = 270 mg/kg Oral LD50 (Rat) = 317 mg/kg Oral LD50 (Rat) = 530 mg/kg Dermal LD50 (Rat) = 669 mg/kg Dermal LD50 (Rabbit) = 850 mg/kg |
| 2-(2-aminoethylamino)ethanol | Oral LD50 (Rat) = 3,000 mg/kg |
| 3,6-diazaoctanethylenediamine | None |

| Hazardous Component(s) | Immediate Health Effects | Delayed Health Effects | Chronic Health Effects |
|--|--------------------------|------------------------|---|
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | Corrosive | | |
| N-Aminoethylpiperazine | Irritant Corrosive | Allergen | |
| Diethylenetriamine | Irritant | Allergen | Eyes |
| 2-[2-(3-Aminopropoxy)ethoxy]ethanol | Irritant | | |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Irritant | Allergen | |
| Phenol | Corrosive Irritant | | Blood Cardiac Developmental Eyes Kidney Liver Mutagen Nervous System Skin Vascular |
| 2-(2-aminoethylamino)ethanol | Irritant | Allergen | |
| 3,6-diazaoctanethylenediamine | Corrosive Irritant | Allergen | Developmental Mutagen |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|---|
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | No | No | No |
| N-Aminoethylpiperazine | No | No | No |
| Diethylenetriamine | No | No | No |
| 2-[2-(3-Aminopropoxy)ethoxy]ethanol | No | No | No |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | No | No | No |
| Phenol | No | No | No |
| 2-(2-aminoethylamino)ethanol | No | No | No |
| 3,6-diazaoctanethylenediamine | No | No | No |

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

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. (Diethylene glycol di-(3-aminopropyl) ether, Substituted piperazine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Diethylene glycol di-(3-aminopropyl) ether, Substituted piperazine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylene glycol di-(3-aminopropyl) ether, Substituted piperazine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

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: Phenol (CAS# 108-95-2).

CERCLA/SARA Section 311/312: Please refer to the GHS classification in Section 2

CERCLA/SARA Section 313: None above reporting de minimis.

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/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: 2,3,8,11,15

Prepared by: Product Safety and Regulatory Affairs

Issue date: 01/17/2025

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.