



Revision Number: 003.0

Issue date: 01/23/2025

1. IDENTIFICATION

Product name: LOCTITE EA 9320NA AERO PART B
8OZ
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

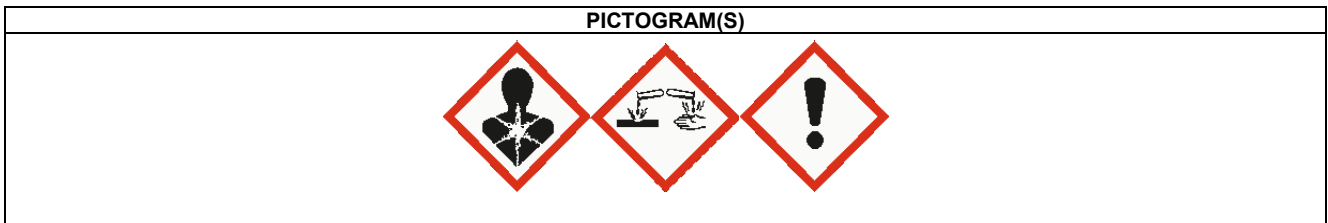
IDH number: 1053929
Item number: AB9358014
Region: United States
Contact information:
 Telephone: +1 (860) 571-5100
 MEDICAL EMERGENCY Phone: Poison Control Center
 1-877-671-4608 (toll free) or 1-303-592-1711
 TRANSPORT EMERGENCY Phone: CHEMTREC
 1-800-424-9300 (toll free) or 1-703-527-3887
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 1-800-424-9300 (toll free) or 1-703-527-3887
 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: H302 - HARMFUL IF SWALLOWED.
 H314 - CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
 H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
 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 ORAL	4
SKIN CORROSION	1
SERIOUS EYE DAMAGE	1
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	2



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.
 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+P312+P330 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 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.
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.

Storage:
Disposal:

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	30 - 60
3,6-diazaoctanethylenediamine	112-24-3	30 - 60
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	1 - 5
2-(2-aminoethylamino)ethanol	111-41-1	0.1 - 1
N-Aminoethylpiperazine	140-31-8	0.1 - 1
Tetraethylene pentamine	112-57-2	0.1 - 1
Diethylenetriamine	111-40-0	0.1 - 1
1,2-Ethanediamine, N1,N1-bis[3-(trimethoxysilyl)propyl]-	74956-86-8	0.1 - 1
Methanol	67-56-1	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 mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.
Skin contact:	Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention.
Eye contact:	Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
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:	Use media appropriate for surrounding material.
Improper extinguishing agents:	Not available.
Special firefighting procedures:	Wear protective equipment. Wear full protective clothing.
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:

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

Handling:

Avoid breathing vapors or mists of this product. Avoid contact with eyes, skin and clothing. Wear protective equipment. Wash thoroughly after handling. Do not take internally. For industrial use only.

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
3,6-diazaoctanethylenediamine	None	None	1 ppm (6 mg/m ³) TWA (SKIN)	None
Tetraethylene pentamine	None	None	1 ppm (5 mg/m ³) TWA Aerosol. (SKIN) Aerosol. (Skin sensitizer.)	None
Diethylenetriamine	1 ppm TWA (SKIN)	None	None	None
Methanol	200 ppm TWA (SKIN) 250 ppm STEL	200 ppm (260 mg/m ³) PEL	None	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:

Wear chemical goggles; face shield (if splashing is possible).

Skin protection:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid

Color:

Blue

Odor:

Ammoniacal

Odor threshold:

Not available.

pH:

12.50 - 13.50

pH:

Not determined

Vapor pressure:

Not determined < 0.1 hPa (20 °C (68°F))

Boiling point/range:

Not determined > 93 °C (> 199.4 °F) 1,013 hPa

Melting point/ range:

Not applicable, Product is a liquid

Density/Relative density:	1.0
Relative vapor density:	> 1 20 °C
Flash point:	> 93 °C (> 199.4 °F)
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Autoignition temperature:	Not applicable
Flammability:	Not applicable
Evaporation rate:	Not determined
Solubility:	largely soluble Water
Solubility:	Negligible
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:	Not available.

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 you plan to use immediately. 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
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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:	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:	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	None
3,6-diazaoctanethylenediamine	None
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Inhalation LC50 (Rat, 4 h) = > 1.49 - < 2.44 mg/l
2-(2-aminoethylamino)ethanol	Oral LD50 (Rat) = 3,000 mg/kg
N-Aminoethylpiperazine	None
Tetraethylene pentamine	Oral LD50 (Rat) = 3.99 g/kg Oral LD50 (Rat) = 2.1 g/kg Dermal LD50 (Rabbit) = 0.66 g/kg
Diethylenetriamine	Oral LD50 (Rat) Approximate 1,140 mg/kg Oral LD50 (Rat) = 1,080 mg/kg Oral LD50 (Rat) = 2.33 g/kg
1,2-Ethanediamine, N1,N1-bis[3-(trimethoxysilyl)propyl]-	None
Methanol	Oral LD50 (Rat) = 5,628 mg/kg Oral LD50 (Mouse) = 7,300 mg/kg Oral LD50 (Rabbit) = 14.4 g/kg Dermal LD50 (Rabbit) = 15,800 mg/kg

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	Corrosive		
3,6-diazaoctanethylenediamine	Corrosive Irritant	Allergen	Developmental Mutagen
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Irritant	Allergen	
2-(2-aminoethylamino)ethanol	Irritant	Allergen	
N-Aminoethylpiperazine	Irritant Corrosive	Allergen	
Tetraethylene pentamine	Irritant	Allergen	Mutagen
Diethylenetriamine	Irritant	Allergen	Eyes
1,2-Ethanediamine, N1,N1-bis[3-(trimethoxysilyl)propyl]-			
Methanol	Irritant		Eyes Metabolic Nervous System

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	No	No	No
3,6-diazaoctanethylenediamine	No	No	No
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	No	No	No
2-(2-aminoethylamino)ethanol	No	No	No
N-Aminoethylpiperazine	No	No	No
Tetraethylene pentamine	No	No	No
Diethylenetriamine	No	No	No
1,2-Ethanediamine, N1,N1-bis[3-(trimethoxysilyl)propyl]-	No	No	No
Methanol	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, Triethylenetetramine)
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, Triethylenetetramine)
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, Triethylenetetramine)
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: None above reporting de minimis.
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/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: New Material Safety Data Sheet format.

Prepared by: Product Safety and Regulatory Affairs

Issue date: 01/23/2025

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