

Revision Number: 003.0

Issue date: 08/06/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE EA 9320NA AERO PART A

QT known as EA 9320NA PART A

QUART

Product type:

Adhesive for the Aerospace Industry

Restriction of Use: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

1053928

Item number: Region:

AA9358016 United States

Contact information: Telephone: (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

WARNING: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

PICTOGRAM(S)



Precautionary Statements

Prevention:

Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work

clothing should not be allowed out of the workplace. Wear eye and face protection. Wear

protective gloves.

Response:

IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If

skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical

attention. Take off contaminated clothing.

Storage:

Not prescribed

Disposal:

Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

8 % of the mixture consists of ingredient(s) of unknown acute toxicity.

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.

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Product name: LOCTITE EA 9320NA AERO PART A QT known as EA 9320NA PART A QUART Page 1 of 6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Epoxy resin	Proprietary	60 - 100	
Epoxy resin	Proprietary	5 - 10	
Modified Epoxy Resin	Unknown	5 - 10	
Silicon dioxide	7631-86-9	1 - 5	
Glass, oxide, chemicals	65997-17-3	1 - 5	

^{*} Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

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:

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.

Symptoms:

See Section 11.

Notes to physician:

Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Water spray (fog), foam, dry chemical or carbon dioxide.

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:

Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental

regulations.

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7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Do not cut, grind, weld, or drill on or near this container. Empty containers retain product residue, so obey hazard warnings

and handle empty containers as if they were full.

Storage: 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
Epoxy resin	None	None	None	None
Epoxy resin	None	None	None	None
Modified Epoxy Resin	None	None	None	None
Silicon dioxide	6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction.
Glass, oxide, chemicals	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None

Engineering controls:

Local exhaust ventilation is recommended when general ventilation is not

sufficient to control airborne contamination.

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 Beige

Color: Odor:

Epoxy

Odor threshold:

Not available.

Not applicable Not available.

pH: Vapor pressure: Boiling point/range:

Not available. Not available. Not available.

Melting point/ range: Specific gravity: Vapor density:

Not available. > 93 °C (> 199.4 °F)

Flash point: Flammable/Explosive limits - lower:

Not available. Not available. Not applicable

Flammable/Explosive limits - upper: Autoignition temperature:

Not applicable Not miscible or difficult to mix

Evaporation rate: Solubility in water:

Not available.

Partition coefficient (n-octanol/water): VOC content:

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< 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated)

Viscosity:

Not available.

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:

This product may react with strong acids or oxidizing agents.

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

Potential Health Effects/Symptoms

Inhalation:

This product is irritating to the respiratory system.

Skin contact:

This product is irritating to the skin. This product may cause an allergic skin reaction.

Eye contact:

This product is irritating to the eyes.

Ingestion:

Not expected under normal conditions of use.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Epoxy resin	None	Allergen, Irritant	
Epoxy resin	None	Allergen, Irritant	
Modified Epoxy Resin	None	No Data	
Silicon dioxide	Oral LD50 (RAT) = > 22,500 mg/kg	Nuisance dust	
Glass, oxide, chemicals	None	Allergen, Respiratory	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epoxy resin	No	No	No
Epoxy resin	No	No	No
Modified Epoxy Resin	No	No	No
Silicon dioxide	No	No	No
Glass, oxide, chemicals	No	No	No

12. ECOLOGICAL INFORMATION

Ecological Information:

IDH number: 1053928

Toxic to aquatic organisms

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number:

Material, if discarded, is not expected to be a characteristic hazardous waste

under RCRA.

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:

Not regulated

Hazard class or division:

None

Identification number:

None None

International Air Transportation (ICAO/IATA)

Proper shipping name:

Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin

resin, Bisphenol A diglycidyl ether)

Hazard class or division:

0

Identification number:

UN 3082

Packing group:

Packing group:

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Water Transportation (IMO/IMDG)

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A

Epichlorhydrin resin, Bisphenol A diglycidyl ether)

Hazard class or division:

UN 3082

Identification number:

UN 3082

Packing group: Marine pollutant:

Bisphenol-A Epichlorhydrin resin, Bisphenol A diglycidyl ether

Exceptions:

Classified per IMDG Amendment 34; Effective Jan 1, 2010.

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

inventory.

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312:

None above reporting de minimis Immediate Health, Delayed Health None above reporting de minimis

CERCLA/SARA Section 313:

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

IDH number: 1053928

CEPA DSL/NDSL Status:

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 Material Safety Data Sheet format.

Prepared by: Mark Mau, Regulatory Affairs Specialist

Issue date: 08/06/2014

IDH number: 1053928

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Revision Number: 002.0

Issue date: 08/06/2014

1, PRODUCT AND COMPANY IDENTIFICATION

Product name:

Product type:

LOCTITE EA 9320NA AERO PART B

8OZ known as EA 9320NA PART B 8

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Adhesive for the Aerospace Industry None identified

Restriction of Use: Company address:

Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

Region:

1053929

Item number:

AB9358014 United States

Contact information:

Telephone: (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.

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE AN ALLERGIC SKIN REACTION.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1



Precautionary Statements

Prevention:

Do not breathe vapors, mist, or spray. Wash 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, eye protection, and face protection.

Response:

If SWALLOWED: Immediately call poison control or physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately

SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing, Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing

before reuse.

Storage:

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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).

Product name: LOCTITE EA 9320NA AERO PART B 80Z known as EA 9320NA PART B 8 OZ

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See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	4246-51-9	30 - 60
Triethylenetetramine	112-24-3	30 - 60
Silane derivative	Proprietary	1-5

^{*} Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

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.

Symptoms:

See Section 11.

Notes to physician:

Treat symptomatically and supportively.

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. Cartridge respirators do not provide adequate protection for fire

fighters or exotherm mitigation.

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:

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
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	None	None	None	None
Triethylenetetramine	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
Silane derivative	None	None	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 Blue

Color: Odor:

Odor threshold:

Ammoniacal

Not available. Not determined

Vapor pressure: Boiling point/range: Not determined Not determined Not determined

Melting point/ range: Specific gravity:

1.0

Vapor density:

Not applicable

Flash point:

> 93 °C (> 199.4 °F) Not determined

Flammable/Explosive limits - lower: Flammable/Explosive limits - upper:

Not determined Not applicable Not determined

Autoignition temperature: Evaporation rate: Solubility in water:

Negligible Not determined

Partition coefficient (n-octanol/water):

VOC content:

< 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated)

Viscosity: Decomposition temperature: Not available. Not available.

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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

Relevant routes of exposure:

Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:

Mists, vapors or liquid may cause severe irritation or burns. May cause allergic respiratory

Skin contact:

This product is severely irritating to the skin and may cause burns. This product may cause an

allergic skin reaction. May be harmful if absorbed through skin.

Eye contact:

This product is severely irritating to the eyes and may cause irreversible damage including

burns and blindness.

Ingestion:

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	None	Corrosive
Triethylenetetramine	None	Allergen, Corrosive, Developmental, Irritant, Mutagen
Silane derivative	None	Irritant, Allergen

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	No	No	No
Triethylenetetramine	No	No	No
Silane derivative	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:

IDH number: 1053929

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.

Hazardous waste number:

This product, if discarded, may be characterized as a RCRA corrosive waste,

D002.

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. (Diethylene glycol di-(3-aminopropyl) ether,

Triethylenetetramine)

Hazard class or division:

8

Identification number: Packing group:

UN 2735 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:

Identification number:

UN 2735 II

Packing group:

Water Transportation (IMO/IMDG)
Proper shipping name:

AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylene glycol di-(3-aminopropyl)

ether, Triethylenetetramine)

Hazard class or division:

Identification number:

UN 2735

Packing group:

UN 2735

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45 REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

inventory.

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313: None above reporting de minimis Immediate Health, Delayed Health 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:

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 Material Safety Data Sheet format.

Prepared by:

Mark Mau, Regulatory Affairs Specialist

Issue date:

IDH number: 1053929

08/06/2014

Product name: LOCTITE EA 9320NA AERO PART B 8OZ known as EA 9320NA PART B 8 OZ Page 5 of 6

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IDH number: 1053929 Product name: LOCTITE EA 9320NA AERO PART B 80Z known as EA 9320NA PART B 8 OZ Page 6 of 6