

Revision Number: 001.6 Issue date: 11/28/2016

1 PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE EA 9321 AERO PART B PT

known as EA 9321 PART B PINT Adhesive for the Aerospace Industry

None identified

Product type: Restriction of Use:

Company address: **Henkel Corporation** One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

1055238

Item number:

AB9362015

Region:

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

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER:

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

MAY CAUSE AN ALLERGIC SKIN REACTION.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED.

HAZARD CLASS	HAZARD CATEGORY
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1

PICTOGRAM(S)



Precautionary Statements

Prevention:

Do not breathe dust or fumes. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye

and face protection. In case of inadequate ventilation wear respiratory protection.

Response:

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. If experiencing respiratory symptoms: Call a poison center or physician. Wash contaminated

clothing before reuse.

Storage:

Store locked up.

Disposal:

IDH number: 1055238

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 9321 AERO PART B PT known as EA 9321 PART B PINT

Page 1 of 6

See Section 11 for additional toxicological information.

3. COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer	68082-29-1	50 - 60	
Aluminium oxide	1344-28-1	20 - 30	
Diethylenetriamine	111-40-0	5 - 10	
Silica, amorphous, fumed, crystal-free	112945-52-5	1-5	
Triethylenetetramine	112-24-3	1 - 5	
N-(3- (Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	1 - 5	

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

4. FIRST AID MEASURES	
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Inhalation: If inhaled, immediately remove the affected person to fresh air. If symptoms

develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Wash affected area immediately

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: DO NOT induce vomiting unless directed to do so by medical personnel. If

symptoms develop and persist, get medical attention.

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.

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. 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.

IDH number: 1055238 Product name: LOCTITE EA 9321 AERO PART B PT known as EA 9321 PART B PINT Page 2 of 6°

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. 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:

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)	ent(s) ACGIH TLV OSHA PEL		AIHA WEEL	OTHER	
C18 Fatty acid dimer, tall oil fatty acid, trielhylenetetramine polymer	None	None	None	None	
Aluminium oxide	1 mg/m3 TWA Respirable fraction.	6 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 50 MPPCF TWA Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None	
Diethylenetriamine	(SKIN) 1 ppm TWA	None.	None	None	
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 20 MPPCF TWA 3 mg/m3 TWA 0.8 mg/m3 TWA Respirable fraction.		None	None	
Triethylenetetramine	Nоле .	None	1 ppm (6 mg/m3) TWA (SKIN)	None	
N-(3- (Trimethoxysilyl)propyl)ethylenediamine	None	None	None	None	

Engineering controls:

Ventilation should effectively remove and prevent buildup of any dust

generated from the handling of this product.

Respiratory protection:

When dusts or thermal processing fumes are generated and ventilation is not

sufficient to effectively remove them, appropriate NIOSH/MSHA approved

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:

Color:

Odor: Odor threshold:

pH:

. Vapor pressure: Boiling point/range: Melting point/ range:

Specific gravity:

Vapor density: Flash point: Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper: Autolgnition temperature:

Flammability: Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

VQC content:

Viscosity:

Decomposition temperature:

Solid

Amber Ammonia Not available.

Not determined < 1 mm hg Not applicable Not determined

1.22

Not determined > 93 °C (> 199.4 °F)

Not determined Not determined Not applicable

Not applicable Not determined

Not miscible or difficult to mix

Not determined

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

Not available. Not available.

10. STABILITY AND REAGTIVITY

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:

IDH number: 1055238

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.

AL TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes

Product name: LOCTITE EA 9321 AERO PART B PT known as EA 9321 PART B PINT Page 4 of 6

Potential Health Effects/Symptoms

Inhalation:

Skin contact:

Inhalation of dusts of this product may cause severe irritation and burns to the respiratory tract. This product is severely irritating to the skin and may cause burns. This product may cause an

altergic skin reaction. This product may be harmful if it is absorbed through the skin.

Eye contact: Ingestion: This product is severely irritating to the eyes and may cause eye burns. Ingestion causes burns of the upper digestive and respiratory tracts.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects No Records	
C18 Fatty acid dirner, tall oil fatty acid, Iriethylenetetramine polymer	None		
Aluminium oxide	None	Irritant, Nuisance dust, Corrosive	
Diethylenetriamine	Oral LD50 (Rat) Approximate 1,140 mg/kg Oral LD50 (Rat) = 1,080 mg/kg Oral LD50 (Rat) = 2.33 g/kg	Allergen, Irritant, Eyes	
Silica, amorphous, furned, crystal-free	None	Nuisance dust	
Triethylenetetramine	None	Allergen, Corrosive, Developmental, Irrilant, Mutagen	
N-(3- (Trimethoxysilyl)propyl)ethylenediamine	None	Irritant, Allergen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
C18 Fatty acid dirner, tall oil fatty acid, triethylenetetramine polymer	No	No	No
Aluminium oxide	No	No_	No
Diethylenetriamine	No	No	No
Silica, amorphous, furned, crystal-free	No	No	No
Triethylenetetramine	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:

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. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

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, solid, comosive, n.o.s. (Diethylenetriamine, Triethylenetetramine)

Hazard class or division:

0

Identification number:

UN 3259

Packing group:

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International Air Transportation (ICAO/IATA)

Proper shipping name:

Amines, solid, corrosive, n.o.s. (Diethylenetriamine, Triethylenetetramine)

Hazard class or division: Identification number:

UN 3259

Packing group:

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Water Transportation (IMO/IMDG)

Proper shipping name:

AMINES, SOLID, CORROSIVE, N.O.S. (Diethylenetriamine, Triethylenetetramine,

C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer)

Hazard class or division:

Identification number:

UN 3259

111

Packing group: Marine pollutant:

C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer

REGULATORY INFORMATION

United States Regulatory Information

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: CERCLA/SARA Section 313:

Immediate Health, Delayed Health

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). Aluminium oxide (CAS# 1344-28-1).

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: New Material Safety Data Sheet format.

Prepared by:

Mark Mau, Regulatory Affairs Specialist

issue date:

IDH number: 1055238

11/28/2016

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