

Revision Number: 004.1

Issue date: 12/29/2016

PRODUCT AND COMPANY IDENTIFICATION

Product name:

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LOCTITE EA 9359.3 AERO PART A QT

known as EA 9359.3 PART A QUART

Product type: Adhesive for the Aerospace Industry None identified

Restriction of Use: Company address:

Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

937137

Item number:

AA9318016 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

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	The second secon

PICTOGRAM(S)



Precautionary Statements

Prevention:

Avoid breathing dust or fumes. 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 water. 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 eye irritation persists: Get medical attention. Take off

contaminated clothing.

Storage:

Disposal:

Not prescribed

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).

See Section 11 for additional toxicological information.

COMPOSITION / INFORMATION ON INGREDIENTS

Product name: LOCTITE EA 9359.3 AERO PART A QT known as EA 9359.3 PART A QUART Page 1 of 6

Hazardous Component(s)	CAS Number	Percentage*	
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	50 - 60	I IIII 1.XEE S
Triglycidyl-p-aminophenol	5026-74-4	10 - 20	
Glass, oxide, chemicals	65997-17-3	1 - 5	
Treated fumed silica	67762-90-7	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

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.

Remove contaminated clothing and footwear. Wash with soap and water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. Skin contact:

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15

minutes, and seek immediate medical attention.

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

symptoms develop and persist, get medical attention.

Symptoms: See Section 11.

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 monox de, carbon dioxide

and/or low molecular weight hydrocarbons. Oxides of ritrogen.

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. We ar 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.

HANDLING AND STORAGE

Handling:

For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in product literature. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. For industrial use only.

Storage:

For safe storage, store at or below 25 °C (77°F)

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
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None
Triglycidyl-p-aminophenol	None	None	None	None
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
Treated fumed silica	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:

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.

Eve/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.

PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Paste Yellow

Color: Odor:

Slight Not available.

Odor threshold:

Neutral Negligible Not determined

pH: Vapor pressure:

Boiling point/range: Melting point/ range: Not determined Specific gravity: 1.16

Vapor density:

Flash point:

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> 93 °C (> 199.4 °F); Estimated

Flammable/Explosive limits - lower:

Not determined Not determined

Flammable/Explosive limits - upper: Autoignition temperature: Flammability:

Not determined Not applicable Not determined

Evaporation rate: Solubility in water:

Negligible

Partition coefficient (n-octanol/water):

Not determined

VOC content: Viscosity:

Decomposition temperature:

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

Not available. 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

Relevant routes of exposure:

Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:

This product may cause slight irritation to the respiratory system.

Skin contact:

Prolonged and/or repeated skin contact with this product may cause irritation. This product may

cause an allergic skin reaction.

Eye contact: Ingestion:

This product may cause irritation to the eyes.

Low toxicity. Ingestion of large amounts may produce gastrointestinal disturbances including

irritation, nausea, and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	Allergen, Irritant
Triglycidyl-p-aminophenol	None	Allergen, Irritant, Mutagen
Glass, oxide, chemicals	None	Allergen, Respiratory
Treated fumed silica	None	Irritant

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Triglycidyl-p-aminophenol	No	No	No
Glass, oxide, chemicals	No	No	No
Treated fumed silica	No	No	No

ECOLOGICAL INFORMATION

Ecological information:

IDH number: 937137

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:

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. 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:

Not regulated

Hazard class or division:

None

Identification number: Packing group: None None

International Air Transportation (ICAO/IATA)

Proper shipping name:

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

resin, Triglycidyl-p-aminophenol)

Hazard class or division:

9

Identification number: Packing group:

UN 3077

Water Transportation (IMO/IMDG)

Proper shipping name:

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

Epichlorhydrin resin, Triglycidyl-p-aminophenol)

Hazard class or division:

9

Identification number:

UN 3077

Packing group: Marine pollutant:

Bisphenol-A Epichlorhydrin resin, Triglycidyl-p-aminophenol

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:

Triglycidyl-p-aminophenol (CAS# 5026-74-4).

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

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: 937137

12/29/2016

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Revision Number: 003.4

Issue date: 12/27/2016

PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type:

LOCTITE EA 9359.3 AERO PART B PT

known as EA 9359.3 PART B PINT

Adhesive for the Aerospace Industry None identified

Restriction of Use: Company address:

Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

937138

Item number:

AB9318015

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.

HAZARD CLASS	HAZARD CATEGORY
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1 298610 1
SKIN SENSITIZATION	1





Precautionary Statements

Prevention:

Avoid breathing vapors, mist, or spray. 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.

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. Wash

contaminated clothing before reuse.

Storage:

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).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
N,N'-Bis(3-aminopropyl)piperazine	7209-38-3	40 - 50	milli golsken
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	4246-51-9	10 - 20	
Silica, amorphous, fumed, crystal-free	112945-52-5	5 - 10	
Benzyl alcohol	100-51-6	1 - 5	
3- Aminomethyl-3,5,5- trimethylcyclohexylamine	2855-13-2	1 - 5	0.00
N-Aminoethylpiperazine	140-31-8	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

Inhalation: If inhaled, immediately remove the affected person to fesh air. If symptoms

develop and persist, get medical attention. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen.

Skin contact: Remove contaminated clothing and footwear. 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: Wear appropriate protective equipment and clothing during clean-up. Prevent

further leakage or spillage if safe to do so. 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 at or below 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
N,N'-Bis(3-aminopropyl)piperazine	None	None	None	None
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
Benzyl alcohol	None	None	10 ppm (44.20 mg/m3) TWA	None
3- Aminomethyl-3,5,5- trimethylcyclohexylamine	None	None	None	None
N-Aminoethylpiperazine	None	None	None	None

Engineering controls: Provide local and general exhaust ventilati

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. 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:

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

or safety glasses with side shields.

Skin protection:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid

Color:

Blue Rubber-like

Odor: Odor threshold:

Not available. Not determined

pH:

Not determined Not applicable Not applicable Not determined

Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity:

1.02

Vapor density: Flash point:

> 93 °C (> 199.4 °F); Estimated

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Product name: LOCTITE EA 9359.3 AERO PART B PT known as EA 9359.3 PART B PINT Page 3 of 6

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper: Autoignition temperature:

Flammability: Evaporation rate: Solubility in water:

Partition coefficient (n-octanol/water):

VOC content: Viscosity:

Decomposition temperature:

Not determined

Not determined Not determined Not applicable Not determined

Negligible Not determined

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

Not available. 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:

IDH number: 937138

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. Do not heat mixed adhesive unless curing surfaces to be bonded.

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 be harmful if inhaled.

Skin contact:

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

allergic skin reaction.

Eye contact:

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

burns and blindness.

Ingestion:

Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the

digestive tract. May be harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
N,N'-Bis(3-aminopropyl)piperazine	None	No Records	
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	None	Corrosive	
Silica, amorphous, fumed, crystal-free	None	Nuisance dust	
Benzyl alcohol	Oral LD50 (Rabbit) = 1,940 mg/kg Oral LD50 (Rat) = 1,230 - 3,100 mg/kg Oral LD50 (Mouse) = 1,580 mg/kg Oral LD50 (Rat) = 3,100 mg/kg Dermal LD50 (Rabbit) = 2,000 mg/kg	Allergen, Central nervous system, Corrosive, Irritant	
3- Aminomethyl-3,5,5- trimethylcyclohexylamine	None	Irritant, Allergen, Corrosive, Lung	
N-Aminoethylpiperazine	None	Irritant, Corrosive, Allergen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
N,N'-Bis(3-aminopropyl)piperazine	No	No	No
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Benzyl alcohol	No	No	No
3- Aminomethyl-3,5,5- trimethylcyclohexylamine	No	No	No
N-Aminoethylpiperazine	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, liquid, corrosive, n.o.s. (Substituted piperazine, Diethyleneglycol

aminopropyl ether)

Hazard class or division:

8

Identification number:

UN 2735

Packing group:

111

International Air Transportation (ICAO/IATA)

Proper shipping name:

Amines, liquid, corrosive, n.o.s. (Substituted piperazine, Diethyleneglycol

aminopropyl ether)

Hazard class or division:

Identification number:

UN 2735

Packing group:

Water Transportation (IMO/IMDG)

Proper shipping name:

AMINES, LIQUID, CORROSIVE, N.O.S. (Substituted piperazine, Diethyleneglycol

aminopropyl ether)

Hazard class or division: Identification number:

UN 2735

Packing group:

UN 27

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:

None above reporting de minimis. Immediate Health, Delayed Health

CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:

None above reporting de minimis.

California Proposition 65:

No California Proposition 65 listed chemicals are known to be present.

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:

Mark Mau, Regulatory Affairs Specialist

Issue date:

IDH number: 937138

12/27/2016

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