## **Safety Data Sheet**



Revision Number: 004.0 Issue date: 12/02/2022

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE EA 9377 AERO PART A 60Z
Product type/use: Adhesive for the Aerospace Industry
Restriction of Use: None identified

Restriction of Use: Company address:

Henkel Corporation
One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 937189 Item number: AA9336312 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

Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

DANGER: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.
MAY CAUSE RESPIRATORY IRRITATION.
SUSPECTED OF CAUSING GENETIC DEFECTS.

MAY CAUSE CANCER.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED

EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
GERM CELL MUTAGENICITY	2
CARCINOGENICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

#### PICTOGRAM(S)



#### **Precautionary Statements**

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Do not breathe dust or fumes. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear

protective gloves, clothing, eye and face protection.

Response: IF ON SKIN: Wash with plenty of water. IF INHALED: Remove victim to fresh air and keep at

rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical

attention. Take off contaminated clothing.

Storage: Store in a well-ventilated place. Keep container tightly closed. 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).

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Silica, amorphous, naturally	60676-86-0	10 - 30
Triglycidyl-p-aminophenol	5026-74-4	10 - 30
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	10 - 30
Tetraglycidyl diaminodiphenylmethane	28768-32-3	5 - 10
Ceramic materials and wares, chemicals	66402-68-4	5 - 10
2,2'-[(1-Methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	1675-54-3	5 - 10
Mica	12001-26-2	5 - 10
Neopentyl glycol diglycidyl ether	17557-23-2	1 - 5
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	1 - 5
Quartz (SiO2) respirable particulates (RCS) >=10%	14808-60-7	1 - 5
Titanium dioxide	13463-67-7	0.1 - 1

<sup>\*</sup> 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 fresh air. If symptoms

develop and persist, get medical attention. If breathing is difficult, give oxygen.

If not breathing, give artificial respiration.

**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:** 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: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do

not breathe fumes or dust from this material. Use only with adequate

ventilation. For industrial use only.

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
Silica, amorphous, naturally	3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles.	20 MPPCF TWA 0.8 mg/m3 TWA 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 MPPCF TWA Respirable fraction. 50 MPPCF TWA Total dust.	None	None
Triglycidyl-p-aminophenol	None	None	None	None
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None
Tetraglycidyl diaminodiphenylmethane	None	None	None	None
Ceramic materials and wares, chemicals	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	None	None	None	None
Mica	0.1 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 15 mg/m3 PEL Total dust. 5 mg/m3 PEL Respirable fraction.	None	None
Neopentyl glycol diglycidyl ether	None	None	None	None
Siloxanes and Silicones, di-Me, reaction products with 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
Quartz (SiO2) respirable particulates (RCS) >=10%	0.025 mg/m3 TWA Respirable fraction.	0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA_ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust. 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable.	None	None
Titanium dioxide	0.2 mg/m3 TWA Respirable nanoscale particles 2.5 mg/m3 TWA Respirable finescale particles	15 mg/m3 PEL Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None

IDH number: 937189 Product name: LOCTITE EA 9377 AERO PART A 6OZ

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:SolidColor:GrayOdor:EpoxyOdor threshold:Not available.

**pH:** Not applicable, Product is non-soluble (in water).

 Vapor pressure:
 < 0.1 hPa (20 °C (68°F))</td>

 Boiling point/range:
 > 200 °C (> 392°F)

 Melting point/ range:
 < -30 °C (< -22°F)</td>

Specific gravity: 1.58

Vapor density: Not applicable, Product is a solid.

Flash point:

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Not applicable

Not applicable

**Flammability**: The product is not flammable.

Evaporation rate: Not applicable Solubility in water: Not soluble Partition coefficient (n-octanol/water): Not available.

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

Viscosity: Not available.

Decomposition temperature: > 200 °C

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: May occur.

Hazardous decomposition Upon decomposition, th

products:

IDH number: 937189

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low

molecular weight hydrocarbons. Oxides of nitrogen.

**Incompatible materials:** Strong acids and oxidizing agents. Amines.

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.

This product is irritating to the respiratory system.

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

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Skin contact:

Eye contact:

Ingestion:

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Silica, amorphous, naturally	None	Nuisance dust
Triglycidyl-p-aminophenol	None	Allergen, Irritant, Mutagen
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	Allergen, Irritant
Tetraglycidyl diaminodiphenylmethane	Inhalation LC50 (Rat, 4 h) = > 30 mg/m3	Allergen, Blood, Central nervous system, Gastrointestinal, Irritant, Kidney, Liver, Mutagen, Nervous System
Ceramic materials and wares, chemicals	Inhalation LC50 (Rat, 4 h) = > 3.5 mg/l Inhalation LC50 (Rat, 4 h) = > 2.3 mg/l Inhalation LC50 (Rat, 4 h) = > 0.888 mg/l	Lung
2,2'-[(1-Methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	Oral LD50 (Rabbit) = 1,980 mg/kg Oral LD50 (Mouse) = 15,600 mg/kg Oral LD50 (Rat) = > 1,000 mg/kg Oral LD50 (Mouse) = > 500 mg/kg Dermal LD50 (Rabbit) = 20 mg/kg Dermal LD50 (Rat) = > 1,600 mg/kg Dermal LD50 (Mouse) = > 800 mg/kg	No Data
Mica	None	Lung
Neopentyl glycol diglycidyl ether	None	Allergen, Blood, Bone Marrow, Immune system, Irritant, Reproductive
Siloxanes and Silicones, di-Me, reaction products with silica	None	No Data
Quartz (SiO2) respirable particulates (RCS) >=10%	None	No Data
Titanium dioxide	Inhalation LC50 (Rat, 4 h) = > 6.82 mg/l Inhalation LC50 (Rat, 4 h) = > 2.28 mg/l Inhalation LC50 (Rat, 4 h) = > 3.56 mg/l	Irritant, Respiratory, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silica, amorphous, naturally	No	No	No
Triglycidyl-p-aminophenol	No	No	No
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Tetraglycidyl diaminodiphenylmethane	No	No	No
Ceramic materials and wares, chemicals	No	No	No
2,2'-[(1-Methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	No	No	No
Mica	No	No	No
Neopentyl glycol diglycidyl ether	No	No	No
Siloxanes and Silicones, di-Me, reaction products with silica	No	No	No
Quartz (SiO2) respirable particulates (RCS) >=10%	Known To Be Human Carcinogen.	Group 1	Yes
Titanium dioxide	No	Group 2B	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 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.

#### 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 regulatedHazard class or division:NoneIdentification number:NonePacking group: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: UN 3077
Packing group: III

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 UN 3077
Identification number: UN 3077
Packing group: III

Marine pollutant:Bisphenol-A Epichlorhydrin resin, Triglycidyl-p-aminophenolExceptions: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 as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) inventory.

**TSCA 12 (b) Export Notification:** Triglycidyl-p-aminophenol (CAS# 5026-74-4).

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

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: Not available.

Prepared by: Product Safety and Regulatory Affairs

**Issue date:** 12/02/2022

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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.

## **Safety Data Sheet**



Revision Number: 001.2 Issue date: 12/02/2022

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE EA 9377 AERO PART B 60Z
Product type/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: 2773856 Item number: AB9336313 Region: United States

**Contact information:** 

Telephone: +1 (860) 571-5100

MEDICAL EMERGÉNCY 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: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

MAY CAUSE AN ALLERGIC SKIN REACTION.

HAZARD CLASS	HAZARD CATEGORY
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	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.

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*
Tetraethylene pentamine	112-57-2	30 - 60
N,N'-Bis(3-aminopropyl)piperazine	7209-38-3	10 - 30
3,6,9,12- tetraazatetradecamethylenediamine	4067-16-7	5 - 10
Silica, amorphous, fumed, crystal-free	112945-52-5	5 - 10
3,6-diazaoctanethylenediamine	112-24-3	1 - 5

Carbon black	1333-86-4	0.1 - 1
N-Aminoethylpiperazine	140-31-8	0.1 - 1

<sup>\*</sup> 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 fresh air. If symptoms

develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). 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. Never give anything

by mouth to a victim who is unconscious or is having convulsions.

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 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:** Avoid contact with eyes, skin and clothing. 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. 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. Do not cut, grind, weld, or

drill on or near this container.

Storage: Keep the container tightly closed and in a cool, well-ventilated place.

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
Tetraethylene pentamine	None	None	1 ppm (5 mg/m3) TWA Aerosol. (SKIN) Aerosol. (Skin sensitizer.)	None
N,N'-Bis(3-aminopropyl)piperazine	None	None	None	None
3,6,9,12- tetraazatetradecamethylenediamine	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction. 3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles.	20 MPPCF TWA 0.8 mg/m3 TWA 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. 15 MPPCF TWA Respirable fraction.	None	None
3,6-diazaoctanethylenediamine	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
Carbon black	3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 PEL 5 mg/m3 TWA Respirable fraction. 50 MPPCF TWA Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
N-Aminoethylpiperazine	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:** Wear safety glasses; chemical goggles (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:SolidColor:BlackOdor:SlightOdor threshold:Not available.pH:11 - 13

 Vapor pressure:
 < 0.1 hPa (20 °C (68°F))</td>

 Boiling point/range:
 > 200 °C (> 392°F)

 Melting point/ range:
 < -40 °C (< -40°F)</td>

Specific gravity: 1.08

Vapor density: Not applicable, Product is a solid.

Flash point:

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Not applicable

Not available.

Not available.

Flammability: The product is not flammable.

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

Not available.

Not available.

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

Viscosity: 85,000 mPa.s 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.

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, Ingestion

#### **Potential Health Effects/Symptoms**

Inhalation: Inhalation of dusts of this product may cause severe irritation and burns to the respiratory tract. Skin contact: This product is severely irritating to the skin and may cause burns. Repeated or prolonged skin

contact may result in allergic sensitization.

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

burns and blindness.

**Ingestion:** May cause burns of mouth and throat if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Tetraethylene pentamine	Oral LD50 (Rat) = 3.99 g/kg Oral LD50 (Rat) = 2.1 g/kg Dermal LD50 (Rabbit) = 0.66 g/kg	Irritant, Mutagen, Allergen
N,N'-Bis(3-aminopropyl)piperazine	None	No Records
3,6,9,12- tetraazatetradecamethylenediamine	None	Irritant, Allergen
Silica, amorphous, fumed, crystal-free	None	Nuisance dust
3,6-diazaoctanethylenediamine	None	Allergen, Corrosive, Developmental, Irritant, Mutagen
Carbon black	Oral LD50 (Rat) = > 8,000 mg/kg	Respiratory, Some evidence of carcinogenicity
N-Aminoethylpiperazine	None	Irritant, Corrosive, Allergen

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Tetraethylene pentamine	No	No	No
N,N'-Bis(3-aminopropyl)piperazine	No	No	No
3,6,9,12- tetraazatetradecamethylenediamine	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
3,6-diazaoctanethylenediamine	No	No	No
Carbon black	No	Group 2B	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.

### 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, corrosive, n.o.s. (Tetraethylene pentamine, Substituted piperazine)

Hazard class or division: 8

Identification number: UN 3259
Packing group: II

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, solid, corrosive, n.o.s. (Tetraethylene pentamine, Substituted piperazine)

Hazard class or division: 8

Identification number: UN 3259
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (Tetraethylene pentamine, Substituted

piperazine)

Hazard class or division: 8

Identification number: UN 3259

Packing group:

Marine pollutant: Tetraethylene pentamine

## 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.

None above reporting de minimis

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 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: First issue.

Prepared by: Product Safety and Regulatory Affairs

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