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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

<b>Product name:</b> EA9321 Part B bulk	<b>Kit Number:</b> AS9362000
<b>Product type:</b> Adhesive for the Aerospace Industry	<b>Item No. :</b> AB9362000
<b>Company address:</b> Henkel Corporation 2850 Willow Pass Road Bay Point, California 94565	<b>Region:</b> United States <b>Contact Information:</b> Telephone: 925.458.8000 Fax : 925.458.8030. Emergency Telephone: 860.571.5100. Internet www.aerospace.henkel.us

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Amine adduct 68082-29-1	30-60	None	None	None
Aluminum oxide 1344-28-1	10-30	10 mg/m <sup>3</sup> TWA particulate matter containing no asbestos and <1% crystalline silica	15 mg/m <sup>3</sup> TWA total dust 5 mg/m <sup>3</sup> TWA respirable fraction	None
Diethylene triamine 111-40-0	5-10	1 ppm TWA (skin)	None	None
Silica, amorphous (fumed) 7631-86-9	1-5	6 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA	3 mg/m <sup>3</sup> TWA respirable dust
Triethylenetetramine 112-24-3	1-5	None	None	1 ppm, skin TWA, (WEEL)

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW****HMIS:**

<b>Physical state:</b> Solid / Paste	<b>HEALTH:</b> 3*
<b>Color:</b> Amber	<b>FLAMMABILITY:</b> 1
<b>Odor:</b> Ammoniacal	<b>PHYSICAL HAZARD:</b> 1
	<b>Personal Protection:</b> See Section 8

**DANGER:** MAY CAUSE ALLERGIC SKIN REACTION.  
MAY CAUSE EYE, SKIN AND RESPIRATORY BURNS  
CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

Relevant routes of exposure: Skin, Inhalation, Eyes

**Potential Health Effects**

<b>Inhalation:</b>	May cause respiratory tract irritation.
<b>Skin contact:</b>	May cause skin burns. Repeated or prolonged skin contact may result in allergic sensitization. May be harmful if absorbed through skin.
<b>Eye contact:</b>	Severe eye irritation.
<b>Ingestion:</b>	Not expected under normal conditions of use. May cause an aspiration hazard if swallowed.

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**Existing conditions aggravated by exposure:**

Eye, skin, and respiratory disorders.

**See Section 11 for additional toxicological information.**

#### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If discomfort persists seek medical attention.

**Skin contact:** Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Ingestion:** Drink water as a precaution. Get medical attention immediately.

**Notes to physician:** Aspiration may cause pulmonary edema or aspiration pneumonia.

#### 5. FIRE-FIGHTING MEASURES

**Flash point:** Greater than 93°C (200°F) (estimated)

**Autoignition temperature:** Not available

**Flammable/Explosive limits-lower %:** Not determined

**Flammable/Explosive limits-upper %:** Not determined

**Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide.

**Special fire fighting 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:** Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.

#### 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** No information available

**Clean-up methods:** Wear protective clothing, gloves and safety glasses. Scrape up as much material as possible. Store in a closed container until ready for disposal.

#### 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:** Refrigerated storage is recommended to maintain product quality. For safe storage, store at or below 25°C (77°F). Keep container closed.

**Incompatible products:** Keep away from strong oxidizing agents, strong Lewis or mineral acids.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.
<b>Respiratory protection:</b>	When workplace hazards warrant the use of a respirator, appropriate respirators must be used, and a program that follows 29 CFR 1910.134 must be followed.
<b>Skin protection:</b>	Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.
<b>Eye/face protection:</b>	Wear appropriate goggles, face shields or other PPE which will be effective under the circumstances if the possibility of contact exists. A program meeting 29 CFR 1910.133 requirements must be followed when PPE is necessary.

**See Section 2 for exposure limits.**

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Solid / Paste
<b>Color:</b>	Amber
<b>Odor:</b>	Ammoniacal
<b>Vapor pressure:</b>	Less than 1 mm Hg at 20°C (68°F)
<b>pH:</b>	Not determined
<b>Boiling point/range:</b>	Not determined
<b>Melting point/range:</b>	Not determined
<b>Specific gravity:</b>	1.22
<b>Vapor density:</b>	Not determined
<b>Evaporation rate:</b>	Not determined
<b>Solubility in water:</b>	Negligible.
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>VOC content:</b>	<10 g/l (estimate) per SCAQMD Rule 1124 [EPA Test Method 24/304-91]

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Hazardous polymerization:</b>	May occur.
<b>Hazardous decomposition products:</b>	Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.
<b>Incompatibility:</b>	Keep away from strong oxidizing agents, strong Lewis or mineral acids.
<b>Conditions to avoid:</b>	Avoid mixing resin (Part A) and curing agent (Part B) in batches greater than 1 pound(s) (.454 kg) unless you plan to use immediately. Do not heat mixed adhesive above 52°C (125°F) unless curing surfaces to be bonded. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. The exotherm has the potential for release of toxic gasses.

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Amine adduct 68082-29-1	No	No	No
Aluminum oxide 1344-28-1	No	No	No
Diethylene triamine 111-40-0	No	No	No
Silica, amorphous (fumed) 7631-86-9	No	No	No
Triethylenetetramine 112-24-3	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Amine adduct 68082-29-1	No Records
Aluminum oxide 1344-28-1	Corrosive, Irritant, Nuisance dust
Diethylene triamine 111-40-0	Allergen, Eyes, Irritant
Silica, amorphous (fumed) 7631-86-9	Nuisance dust
Triethylenetetramine 112-24-3	Allergen, Developmental, Irritant, Mutagen, Corrosive

**12. ECOLOGICAL INFORMATION**

**Ecological information:** Not available

**13. DISPOSAL CONSIDERATIONS**

Information provided is for unused product only.

**Recommended method of disposal:** Legal disposition of wastes is the responsibility of the owner/generator of the waste. Applicable federal, state and/or local regulations must be followed during treatment, storage, or disposal of waste containing this product.

**EPA hazardous waste number:** Not a RCRA hazardous waste.

**14. TRANSPORT INFORMATION**

**U.S. Department of Transportation Ground (49 CFR):**

**Proper shipping name:** Amines, solid, corrosive, n.o.s. ( Diethylenetriamine / Triethylenetetramine )  
**Hazard class or division:** 8  
**Identification number:** UN 3259  
**Packing group:** III

**International Air Transportation (ICAO/IATA):**

**Proper shipping name:** Amines, solid, corrosive, n.o.s. ( Diethylenetriamine / Triethylenetetramine )  
**Hazard class or division:** 8  
**Identification number:** UN 3259  
**Packing group:** III

**WaterTransportation (IMO/IMDG):**

**Proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. ( Diethylenetriamine / Triethylenetetramine )  
**Hazard class or division:** 8  
**Identification number:** UN 3259  
**Packing group:** III  
**Marine pollutant:** None

## 15. REGULATORY INFORMATION

### United States Regulatory Information

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12 (b) Export Notification:</b>	None.
<b>CERCLA/SARA Section 302 EHS:</b>	None above reporting de minimus.
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health Hazard, Delayed Health Hazard
<b>CERCLA/SARA 313:</b>	None above reporting de minimus.
<b>California Proposition 65:</b>	No California Proposition 65 listed chemicals are known to be present.

### Canada Regulatory Information

<b>CEPA DSL/NDSL Status:</b>	All components are listed on or are exempt from listing on the Domestic Substances List.
<b>WHMIS hazard class:</b>	D.2.B, E

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

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