



Revision Date: 04/10/2007

Issue date: 04/10/2007

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b> Hysol EA9309.3 NA Part B Bulk	<b>Kit Number:</b> AS9354000
<b>Product type:</b> Adhesive for the Aerospace Industry	<b>Item No. :</b> AB9354000
<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>
Diethylene glycol Di-(3-aminopropyl)ether 4246-51-9	60-100	None	None	None
Substituted Piperazine Proprietary	10-30	None	None	None
Diethylene triamine 111-40-0	1-5	1 ppm TWA (skin)	None	None
Phenol 108-95-2	0.1-1	5 ppm TWA (skin)	19 mg/m <sup>3</sup> TWA 5 ppm TWA (skin)	None

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

##### HMIS:

<b>Physical state:</b> Gel	<b>HEALTH:</b> 2
<b>Color:</b> Blue	<b>FLAMMABILITY:</b> 1
<b>Odor:</b> Ammoniacal	<b>PHYSICAL HAZARD:</b> 1
	<b>Personal Protection:</b> See Section 8

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

**Relevant routes of exposure:** Skin, Inhalation, Eyes

#### Potential Health Effects

<b>Inhalation:</b>	Respiratory tract burns.
<b>Skin contact:</b>	May cause skin burns. Repeated or prolonged skin contact may result in allergic sensitization.
<b>Eye contact:</b>	Severe eye irritation. Possible burns to eyes.
<b>Ingestion:</b>	Not expected under normal conditions of use. May be harmful if swallowed. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders.

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See Section 11 for additional toxicological information.

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If discomfort persists seek medical attention.
<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	Drink water as a precaution. Get medical attention immediately.
<b>Notes to physician:</b>	Treat symptomatically and supportively. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash point:</b>	Greater than 93°C (200°F) (estimated)
<b>Autoignition temperature:</b>	Not available
<b>Flammable/Explosive limits-lower %:</b>	Not determined
<b>Flammable/Explosive limits-upper %:</b>	Not determined
<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special fire fighting procedures:</b>	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.
<b>Unusual fire or explosion hazards:</b>	May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.
<b>Hazardous combustion products:</b>	Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	No information available Prevent further leakage or spillage if safe to do so. Do not contaminate water.
<b>Clean-up methods:</b>	Wear protective clothing, gloves and safety glasses. Soak up with inert absorbent. Store in a closed container until ready for disposal.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	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.
<b>Storage:</b>	For safe storage, store at or below 25°C (77°F). Keep container closed.
<b>Incompatible products:</b>	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.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Engineering controls:** Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

**Respiratory protection:** When workplace hazards warrant the use of a respirator, appropriate respirators must be used. Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists. Observe OSHA regulations for respiratory use (29 CFR 1910.134).

**Skin protection:** Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

**Eye/face protection:** Wear appropriate goggles, face shields or other PPE which will be effective under the circumstances if the possibility of contact exists.

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Gel  
**Color:** Blue  
**Odor:** Ammoniacal  
**Vapor pressure:** Not determined  
**pH:** Not determined  
**Boiling point/range:** Not determined  
**Melting point/range:** Not determined  
**Specific gravity:** 1.0  
**Vapor density:** 8.45  
**Evaporation rate:** Not determined  
**Solubility in water:** Negligible.  
**Partition coefficient (n-octanol/water):** Not determined  
**VOC content:** <10 g/l (estimate) per SCAQMD Rule 1124 [EPA Test Method 24/304-91]

## 10. STABILITY AND REACTIVITY

**Stability:** Stable.

**Hazardous polymerization:** May occur.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.

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

**Conditions to avoid:** 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. 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 24°C (75°F) unless curing surfaces to be bonded.

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Diethylene glycol Di-(3-aminopropyl)ether 4246-51-9	No	No	No
Substituted Piperazine Proprietary	No	No	No
Diethylene triamine 111-40-0	No	No	No
Phenol 108-95-2	No	No	No

### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Diethylene glycol Di-(3-aminopropyl)ether 4246-51-9	Corrosive
Substituted Piperazine Proprietary	Irritant, Corrosive, Allergen
Diethylene triamine 111-40-0	Allergen, Eyes, Irritant
Phenol 108-95-2	Blood, Cardiac, Corrosive, Developmental, Eyes, Irritant, Kidney, Liver, Mutagen, Nervous System, Skin, Vascular

## 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:** U188: Phenol

## 14. TRANSPORT INFORMATION

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

**Proper shipping name:** Amines, liquid, corrosive, n.o.s. ( Diethyleneglycol diaminopropyl ether / Substituted Piperazine )  
**Hazard class or division:** 8  
**Identification number:** UN 2735  
**Packing group:** II  
**DOT reportable quantity (lbs):** Phenol is reportable at 1000 pounds (454 kg).

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

**Proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. ( Diethyleneglycol diaminopropyl ether / Substituted Piperazine )  
**Hazard class or division:** 8  
**Identification number:** UN 2735  
**Packing group:** II

### WaterTransportation (IMO/MDG):

**Proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. ( Diethyleneglycol diaminopropyl ether / Substituted Piperazine )  
**Hazard class or division:** 8  
**Identification number:** UN 2735  
**Packing group:** II  
**Marine pollutant:** None

## 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.

**CERCLA/SARA Section 302 EHS:** None above reporting de minimus.  
**CERCLA/SARA Section 311/312:** Not evaluated , Immediate Health Hazard, Delayed Health Hazard  
**CERCLA/SARA 313:** Phenol (CAS# 108-95-2) .

**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 Domestic Substances List.  
**WHMIS hazard class:** 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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