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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b> HYSOL EA 9380 B 400ML SEMPAK	<b>Kit Number:</b> AS9348000
<b>Product type:</b> Adhesive for the Aerospace Industry	<b>Item No. :</b> AB9348335 / IDH No. 937239
<b>Company address:</b> Henkel Corporation 1001 Trout Brook Crossing Rocky Hill, Connecticut 06067	<b>Region:</b> United States
	<b>Contact Information:</b> Telephone: (860) 571-5100 Emergency telephone: (860) 571-5100 Internet: www.loctite.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
2,2'-Dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	60-100	None	None	None
Silica, amorphous (fumed) 7631-86-9	5-10	6 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA	3 mg/m <sup>3</sup> TWA respirable dust

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**Physical state:** Liquid  
**Color:** White  
**Odor:** Ammoniacal

#### HMIS:

**HEALTH:** 3  
**FLAMMABILITY:** 1  
**PHYSICAL HAZARD:** 1  
**Personal Protection:** See Section 8

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

**Relevant routes of exposure:** Skin, inhalation, eyes

### Potential Health Effects

**Inhalation:** May cause respiratory tract irritation. May cause sensitization by inhalation.  
**Skin contact:** This material may be corrosive to eyes and skin. Brief contact may cause chemical burns. May cause allergic skin reaction.  
**Eye contact:** Corrosive to eyes.  
**Ingestion:** Not expected under normal conditions of use.

**Existing conditions aggravated by exposure:** Skin disorders. Eye disorders.

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.

#### 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
<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>	This product may be stored at 25°C (77°F) for up to 12 months. Keep container closed.
<b>Incompatible products:</b>	Keep away from strong oxidizing agents, strong Lewis or mineral acids.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.
<b>Respiratory protection:</b>	Use a NIOSH approved respirator if ventilation is inadequate. Observe OSHA regulations for respiratory use (29 CFR 1910.134).
<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.

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See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	White
<b>Odor:</b>	Ammoniacal
<b>Vapor pressure:</b>	Nil
<b>pH:</b>	Not determined
<b>Boiling point/range:</b>	Not determined
<b>Melting point/range:</b>	Not determined
<b>Specific gravity:</b>	Not available
<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 unless you plan to use immediately. 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
2,2'-Dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	No	No	No
Silica, amorphous (fumed) 7631-86-9	No	No	No

### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
2,2'-Dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	Brain, Corrosive, Irritant, Liver, Lung, Muscle, Skin
Silica, amorphous (fumed) 7631-86-9	Nuisance dust

## 12. ECOLOGICAL INFORMATION

<b>Ecological information:</b>	No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, groundwater, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.
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### 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. Postal System:** Postal regulations prohibit the shipment of this material through the U.S. mail.

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

**Proper shipping name:** Corrosive liquid, toxic, n.o.s ( Dimethylmethylenebis(cyclohexylamine) )  
**Hazard class or division:** 8(6.1)  
**Identification number:** UN 2922  
**Packing group:** III  
**DOT reportable quantity (lbs):** None

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

**Proper shipping name:** Corrosive liquid, toxic, n.o.s ( Dimethylmethylenebis(cyclohexylamine) )  
**Hazard class or division:** 8 ( 6.1 )  
**Identification number:** UN2922  
**Packing group:** III

**WaterTransportation (IMO/IMDG):**

**Proper shipping name:** Corrosive liquid, toxic, n.o.s ( Dimethylmethylenebis(cyclohexylamine) )  
**Hazard class or division:** 8 ( 6.1 )  
**Identification number:** UN2922  
**Packing group:** III  
**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.  
**CERCLA/SARA Section 311/312:** Immediate Health Hazard, Delayed Health Hazard  
**CERCLA/SARA 313:** None.

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

**Canada Regulatory Information**

**CEPA DSL/NDL Status:** All components are listed on or are exempt from listing on the Domestic Substances List.  
**WHMIS hazard class:** D.2.A, D.2.B, E

### 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 1,16

**Prepared by:** Regulatory Affairs

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