

Revision Number: 010.1

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# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: Product type:

Hysol 11C EPK HARD Epoxy Hardener

Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

#### IDH number: 702166 Item number: 83186\_HD3477 Region: United States Contact information: Telephone: 860.571.5100 Emergency telephone: 860.571.5100 Internet: www.henkelna.com

### 2. HAZARDS IDENTIFICATION

	EMERGE	NCY OVERVIEW HMIS:	
Physical state:	Viscous, Liquid	HEALTH:	*3
Color:	Tan	FLAMMABILITY:	1
Odor:	Strong, Ammoniacal	PHYSICAL HAZARD: Personal Protection:	0 See MSDS Section 8
DANGER:	CAUSES EYE AND		
	MAY CAUSE ALLE	RGIC SKIN AND RESPIRATOR	Y REACTION.
	MAY CAUSE RES	PIRATORY TRACT IRRITATION	
		L IF SWALLOWED.	
Potential Health Effect Inhalation:	-	y reaction. May cause respiratory tract irri	tation. May cause irritation to nose
	_		
Skin conta	and throat.		
Eye conta		urns. Allergic skin reaction. Rash. Rednes e irritation. Redness. Tissue damage.	5.
Ingestion:		swallowed. May cause burns of mouth ar	d throat if swallowed.
Existing conditions ag exposure:	gravated by Eye, skin, and res	piratory disorders. Skin allergies. Respira	tory allergies.
	This material is co 1910.1200).	nsidered hazardous by the OSHA Hazard	d Communication Standard (29 CF

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct	68610-56-0	10 - 30
Talc	14807-96-6	10 - 30
Quartz (SiO2)	14808-60-7	10 - 30
Diethylenetriamine	111-40-0	10 - 30
4,4'-Isopropylidenediphenol	80-05-7	1 - 5
2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	3388-04-3	0.1 - 1

4. FIRST AID MEASURES			
4	. FIRST AID MEASURES		
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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, ge medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.		
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.		
Ingestion:	Get immediate medical attention. Keep individual calm. DO NOT induce vomiting unless directed to do so by medical personnel.		
5. F	5. FIRE FIGHTING MEASURES		
Flash point:	> 101.6 °C (> 214.88 °F)		
Autoignition temperature:	Not available		
Flammable/Explosive limits - lower:	Not available		
Flammable/Explosive limits - upper:	Not available		

Water spray (fog), foam, dry chemical or carbon dioxide.

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

In case of fire, keep containers cool with water spray.

Oxides of carbon. Oxides of nitrogen. Irritating organic fragments.

#### 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:
 Do not allow product to enter sewer or waterways.

 Clean-up methods:
 Remove all sources of ignition. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a partly filled, closed container until disposal.

#### 7. HANDLING AND STORAGE

Handling:	Keep away from heat, spark and flame. Do not breathe gas/fumes/vapor/spray. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage:	Store in original container until ready to use. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

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

#### 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.

Extinguishing media:

Special firefighting procedures:

Unusual fire or explosion hazards:

Hazardous combustion products:

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct	None	None	None	None
Talc	2 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	50 ppm
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None
Diethylenetriamine	1 ppm TWA (SKIN)	None	None	None
4,4'-Isopropylidenediphenol	None	None	None	None
2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	None	None	None	None

**Respiratory protection:** 

exposure limits.

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Safety goggles or safety glasses with side shields.

Eye/face protection:

Skin protection:

Chemical resistant, impermeable gloves. Butyl rubber gloves. Use chemical resistant, impermeable clothing including gloves and either an apron or body

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

suit to prevent skin contact.

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): **VOC content:** 

Viscous, Liquid Tan Strong, Ammoniacal Not available Not applicable < 1 mm hg (20 °C (68°F)) 207 °C (404.6 °F) (1,013 hPa) Not available 1.65 3.5 > 101.6 °C (> 214.88 °F) Not available Not available Not available Not available Partially miscible Not available < 0.1 % (value for resin and hardener together)

#### **10. STABILITY AND REACTIVITY**

Stability:	Stable
Hazardous reactions:	Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.
Hazardous decomposition products:	None
Incompatible materials:	Strong bases. Strong acids. Strong oxidizing agents. Amines. Water.
Conditions to avoid:	Avoid temperatures above 38°C (100°F). Excessive heat. Store away from incompatible materials. 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.

# 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct	No	No	No
Talc	No	No	No
Quartz (SiO2)	Known carcinogen.	Group 1	No
Diethylenetriamine	No	No	No
4,4'-Isopropylidenediphenol	No	No	No
2-(3,4- Epoxycyclohexyl)ethyltrimethoxysilane	No	No	No

Hazardous components	Health Effects/Target Organs
Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct	No Records
Talc	Irritant, Lung, Some evidence of carcinogenicity
Quartz (SiO2)	Immune system, Lung, Some evidence of carcinogenicity
Diethylenetriamine	Allergen, Irritant, Eyes
4,4'-Isopropylidenediphenol	Allergen, Blood, Irritant, Kidney, Reproductive, Spleen
2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	Irritant, Allergen

#### **12. ECOLOGICAL INFORMATION**

**Ecological information:** 

Not available

#### **13. DISPOSAL CONSIDERATIONS**

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number:

Not a RCRA hazardous waste.

### **14. TRANSPORT INFORMATION**

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

U.S. Department of Transportation Groun	nd (49 CFR)
Proper shipping name:	Diethylenetriamine (Up to 1 L max per inner/primary package when shipped as
	originally packaged only)
Hazard class or division:	8
Identification number:	UN 2079
Packing group:	II
Exceptions:	Consumer Commodity, ORM-D, (Not more than 1 L)

16. OTHER INFORMATION		
CEPA DSL/NDSL Status: WHMIS hazard class:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List. D.2.A, D.2.B, E	
anada Regulatory Information		
California Proposition 65:	This product contains a chemical known in the State of California to cause cancer.	
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	None above reporting de minimus Immediate Health, Delayed Health This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). 4,4'-Isopropylidenediphenol (CAS# 80-05-7).	
TSCA 12(b) Export Notification:	Inventory. None above reporting de minimus	
TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Ac	
nited States Regulatory Information		
	15. REGULATORY INFORMATION	
Hazard class or division: Identification number: Packing group:	8 UN 2079 II	
Water Transportation (IMO/IMDG) Proper shipping name:	DIETHYLENETRIAMINE (Up to 1 L max per inner/primary package when shipped as originally packaged only)	
Identification number: Packing group:	UN 2079 II	
Hazard class or division:	Diethylenetriamine (Up to 1 L max per inner/primary package when shipped as originally packaged only) 8	

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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