

Revision Number: 001.1

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# **1. PRODUCT AND COMPANY IDENTIFICATION**

IDH number:

Product name: Product type:

Kit 83208-Hysol 1CLV Hard Epoxy Hardener

Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067 Item number: 83208\_AB9308 Region: United States Contact information: Telephone: 860.571.5100 Emergency telephone: 860.571.5100 Internet: www.henkelna.com

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#### 2. HAZARDS IDENTIFICATION

	EMERG	ENCY OVERVIEW HMIS:	
Physical state:	Liquid	HEALTH:	*3
Color:	Tan, Light green	FLAMMABILITY:	1
Odor:	Ammoniacal	PHYSICAL HAZARD:	0
		Personal Protection:	See MSDS Section 8
DANGER:	CAUSES EYE, SI	KIN AND RESPIRATORY TRACT	BURNS.
	MAY CAUSE ALL	ERGIC SKIN AND RESPIRATOR	Y REACTION.
	MAY BE HARMF	JL IF SWALLOWED OR ABSORB	ED THROUGH SKIN.
Potential Health Effects			
Inhalation:	Can cause seve reaction.	re irritation and burns to the respiratory trac	t. May cause allergic respiratory
Skin contact:	Causes skin bur	ns. May cause allergic skin reaction. May b absorbed through skin and cause nausea,	
Eye contact:	Causes eye burr	ns. May cause corneal injury. May cause bli	ndness.
Ingestion:		re burns of the mouth and throat may occur he stomach. May be harmful if swallowed.	, as well as perforation of the
Existing conditions aggrava exposure:	Eye, skin and read	spiratory disorders.	
	This material is o 1910.1200).	considered hazardous by the OSHA Hazard	Communication Standard (29 CFR

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%	
Talc	14807-96-6	30 - 60	
Amine epoxy adduct	Proprietary	10 - 30	
Quartz (SiO2)	14808-60-7	10 - 30	
N-Aminoethylpiperazine	140-31-8	5 - 10	
Nonylphenol	25154-52-3	5 - 10	
Diethylenetriamine	111-40-0	5 - 10	
4,4'-Isopropylidenediphenol	80-05-7	1 - 5	

4	. FIRST AID MEASURES
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Get 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 immediate medical attention.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.
5. F	FIRE FIGHTING MEASURES
Flash point:	101.7 °C (215.06 °F) Open cup
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such a turn-out gear.

Oxides of carbon. Oxides of nitrogen. Ammonia. Nitric acid. Aldehydes. Toxic fumes.

### 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:	Wear protective clothing, gloves and safety glasses. Wear suitable respiratory protection. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a closed container until ready for disposal. Clean residue with soap and water.	
7. HANDLING AND STORAGE		
Handling:	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow. Use only with adequate ventilation. Keep container closed.	

Storage:

Hazardous combustion products:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame.

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.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
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
Amine epoxy adduct	None	None	None	None
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
N-Aminoethylpiperazine	None	None	None	None
Nonylphenol	None	None	None	None
Diethylenetriamine	1 ppm TWA (SKIN)	None	None	None
4,4'-Isopropylidenediphenol	None	None	None	None

Engineering controls:

**Respiratory protection:** 

Eye/face protection:

Skin protection:

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

Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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:** 

Liquid Tan, Light green Ammoniacal Not available Not available Not available 206.7 °C (404.1 °F) Not available 1.65 3.5 101.7 °C (215.06 °F) Open cup Not available Not available Not available Not available Slight Not available Not available

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

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Ammonia. Nitric acid. Aldehydes. Irritating vapors.
Incompatible materials:	Oxidizing agents. Reactive metals. Acids. Sodium hypochlorite. Water. This product slowly corrodes copper, aluminum, zinc and galvanized surfaces.
Conditions to avoid:	Store away from incompatible materials. Excessive heat. Exposure to moisture. Avoid mixing resin (Part A) and curing agent (Part B) in batches greater than 2 pounds (.9 kg) unless you plan to use immediately.

### **11. TOXICOLOGICAL INFORMATION**

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Talc	No	No	No
Amine epoxy adduct	No	No	No
Quartz (SiO2)	Known carcinogen.	Group 1	No
N-Aminoethylpiperazine	No	No	No
Nonylphenol	No	No	No
Diethylenetriamine	No	No	No
4,4'-Isopropylidenediphenol	No	No	No

Hazardous components	Health Effects/Target Organs	
Talc	Irritant, Lung, Some evidence of carcinogenicity	
Amine epoxy adduct	No Data	
Quartz (SiO2)	Immune system, Lung, Some evidence of carcinogenicity	
N-Aminoethylpiperazine	Irritant, Corrosive, Allergen	
Nonylphenol	Allergen, Corrosive, Irritant, Kidney	
Diethylenetriamine	Allergen, Irritant, Eyes	
4,4'-Isopropylidenediphenol	Allergen, Blood, Irritant, Kidney, Reproductive, Spleen	

#### 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.

Hazardous waste number:

Not a RCRA hazardous waste.

### 14. TRANSPORT INFORMATION

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

Proper shipping name: Hazard class or division: Identification number: Packing group: Exceptions: Amines, liquid, corrosive, n.o.s. (Diethylenetriamine, Aminoethylpiperazine) 8 UN 2735 II

(Not more than 1 Liter), Consumer Commodity, ORM-D

15	. REGULATORY INFORMATION
Marine pollutant:	Nonylphenol
Packing group:	ll
Identification number:	UN 2735
Hazard class or division:	8
_	Aminoethylpiperazine)
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylenetriamine,
Vater Transportation (IMO/IMDG)	
Packing group:	II
Identification number:	UN 2735
Hazard class or division:	8
Proper shipping name:	Amines, liquid, corrosive, n.o.s. (Diethylenetriamine, Aminoethylpiperazine)
Dropor chipping nome	Amines liquid corrective need (Distby/enetricmine Aminestby/pinerozine)

**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 above reporting de minimus
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).
California Proposition 65:	This product contains a chemical known in the State of California to cause cancer.
Canada Regulatory Information	
CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian 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: New Material Safety Data Sheet format. 2, 3, 5, 6, 7, 8, 9, 10,14,15

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