



Revision Number: 007.0

Issue date: 02/10/2025

1. IDENTIFICATION

Product name: LOCTITE EA 9462 B HARDENER known as HYSOL 9462 50ML CQ HARD Product type/ Recommended use: Epoxy Hardener Restriction of Use: None identified Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	IDH number: 702158 Item number: 83142_AB9298 Region: United States Contact information: Telephone: +1 (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com
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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER:

H302 - HARMFUL IF SWALLOWED.
 H314 - CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
 H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
 H341 - SUSPECTED OF CAUSING GENETIC DEFECTS.
 H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.
 H372 - CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
SKIN CORROSION	1
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
GERM CELL MUTAGENICITY	2
REPRODUCTIVE TOXICITY	2
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

PICTOGRAM(S)



Precautionary Statements

Prevention:	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust. P264 - Wash affected area thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves, clothing, eye and face protection.
Response:	P301+P312+P330 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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Storage:
Disposal:

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing.
P304+P340+P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical attention.
P333+P313 - If skin irritation or rash occurs: Get medical attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.
P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards

Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight %*
Quartz (SiO ₂) respirable particulates (RCS) >=10%	14808-60-7	10 - 30
benzyl alcohol	100-51-6	10 - 30
3- Aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	10 - 30
4-nonylphenol, branched	84852-15-3	5 - 10
N,N'-Bis(3-aminopropyl)piperazine	7209-38-3	5 - 10
Phenol	108-95-2	1 - 5
Silica, amorphous, fumed, cryst.-free	112945-52-5	1 - 5
N-Aminoethylpiperazine	140-31-8	1 - 5
Phenol, 2-nonyl-, branched	91672-41-2	0.1 - 1
Dinonylphenol	1323-65-5	0.1 - 1

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

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. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get 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.
Most important symptoms and effects (acute and delayed):	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
Indication of any immediate medical attention / special treatment needed:	Not available.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Improper extinguishing agents:	Not available.

Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	In case of fire, keep containers cool with water spray. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
Hazardous combustion products:	Oxides of carbon. Oxides of nitrogen. Ammonia. 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. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Clean residue with soap and water. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling:	Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.
Storage:	Store in original container until ready to use. Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Store away from heat, sparks, flames, or other sources of ignition.

Shelf Life Statement: Not available.

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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Quartz (SiO ₂) respirable particulates (RCS) >=10%	0.025 mg/m ³ TWA Respirable fraction.	0.05 mg/m ³ TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m ³ OSHA_ACT (Respirable dust.) 0.05 mg/m ³ PEL Respirable dust. 2.4 MPPCF TWA Respirable 0.1 mg/m ³ TWA Respirable	None	None
benzyl alcohol	None	None	10 ppm (44.20 mg/m ³) TWA	None
Phenol	5 ppm TWA (SKIN)	5 ppm (19 mg/m ³) PEL (SKIN)	None	None
Silica, amorphous, fumed, cryst.-free	3 mg/m ³ TWA Respirable particles. 10 mg/m ³ TWA Inhalable particles.	20 MPPCF TWA 0.8 mg/m ³ TWA 50 MPPCF TWA Total dust. 5 mg/m ³ TWA Respirable fraction. 15 mg/m ³ TWA Total dust. 15 MPPCF TWA Respirable fraction.	None	None

Engineering controls:	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Respiratory protection:	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.
Eye/face protection:	Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.
Skin protection:	Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Neoprene, Butyl-rubber, or nitrile-rubber gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Amber
Odor:	Slight, Ammoniacal
Odor threshold:	Not available.
pH:	Not applicable
Vapor pressure:	Not available.
Boiling point/range:	> 149 °C (> 300.2 °F)
Melting point/ range:	Not available.
Density/Relative density:	1.31
Relative vapor density:	Not available.
Flash point:	> 149 °C (> 300.2 °F) Cleveland closed cup
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility:	Insoluble Water
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	< 0.05 % (value for resin and hardener together) (estimated)
Dynamic viscosity:	Not available.
Kinematic viscosity:	Not available.
Particle characteristics:	Not available.
Decomposition temperature:	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. Nitric acid. Ammonia. Aldehydes. Irritating organic fragments.
Incompatible materials:	Strong acids. Strong oxidizing agents. Sodium hypochlorite. Organic acids. Mineral acids. This product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Reactive metals. Materials reactive with hydroxyl compounds.
Reactivity:	Not available.
Conditions to avoid:	Excessive heat. Store away from incompatible materials. Heat, flames, sparks and other sources of ignition. 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

Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation:	Abrasion of cured material such as by sanding or grinding could release respirable particles of silica quartz, a cancer hazard by inhalation. Normal use of this product causes no such release. Inhalation of vapors or mists of the product may be irritating to the respiratory system. May cause irritation to nose and throat. May cause respiratory tract irritation.
Skin contact:	May cause allergic skin reaction. Causes skin burns.
Eye contact:	Causes serious eye damage.
Ingestion:	Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed.

Hazardous Component(s)	LD50s and LC50s
Quartz (SiO ₂) respirable particulates (RCS) >=10%	None
benzyl alcohol	Oral LD50 (Mouse) = 1,580 mg/kg Oral LD50 (Rat) = 1,230 - 3,100 mg/kg Oral LD50 (Rabbit) = 1,940 mg/kg Oral LD50 (Rat) = 3,100 mg/kg Dermal LD50 (Rabbit) = 2,000 mg/kg Inhalation LC50 (Rat, 4 h) = 8.8 mg/l Inhalation LC50 (Rat, 4 h) = > 4,178 mg/l
3- Aminomethyl-3,5,5-trimethylcyclohexylamine	Inhalation LC50 (Rat, 4 h) = > 5.01 mg/l Inhalation LC50 (Rat, 4 h) = > 5.01 mg/l Inhalation LC50 (Rat, 4 h) = 1.07 - 5.01 mg/l
4-nonylphenol, branched	None
N,N'-Bis(3-aminopropyl)piperazine	None
Phenol	Oral LD50 (Mouse) = 270 mg/kg Oral LD50 (Rat) = 317 mg/kg Oral LD50 (Rat) = 530 mg/kg Dermal LD50 (Rat) = 669 mg/kg Dermal LD50 (Rabbit) = 850 mg/kg
Silica, amorphous, fumed, cryst.-free	None
N-Aminoethylpiperazine	None
Phenol, 2-nonyl-, branched	None
Dinonylphenol	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Quartz (SiO ₂) respirable particulates (RCS) >=10%			
benzyl alcohol	Corrosive Irritant	Allergen	Central nervous system
3- Aminomethyl-3,5,5-trimethylcyclohexylamine	Irritant Corrosive	Allergen	Lung
4-nonylphenol, branched	Irritant Corrosive		
N,N'-Bis(3-aminopropyl)piperazine			
Phenol	Corrosive Irritant		Blood Cardiac Developmental Eyes Kidney Liver Mutagen Nervous System Skin Vascular
Silica, amorphous, fumed, cryst.-free			
N-Aminoethylpiperazine	Irritant Corrosive	Allergen	
Phenol, 2-nonyl-, branched			
Dinonylphenol			

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Quartz (SiO ₂) respirable particulates (RCS) >=10%	Known To Be Human Carcinogen.	Group 1	Yes
benzyl alcohol	No	No	No
3- Aminomethyl-3,5,5-trimethylcyclohexylamine	No	No	No
4-nonylphenol, branched	No	No	No

N,N'-Bis(3-aminopropyl)piperazine	No	No	No
Phenol	No	No	No
Silica, amorphous, fumed, cryst.-free	No	No	No
N-Aminoethylpiperazine	No	No	No
Phenol, 2-nonyl-, branched	No	No	No
Dinonylphenol	No	No	No

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.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

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

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: RQ, Environmentally hazardous substance, solid, n.o.s. (Nonylphenol)
Hazard class or division: 9
Identification number: UN 3077
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Nonylphenol)
Hazard class or division: 9
Identification number: UN 3077
Packing group: III
Marine pollutant: Nonylphenol

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

TSCA 12 (b) Export Notification: Alkyl phenol (CAS# 84852-15-3).

CERCLA/SARA Section 302 EHS: Phenol (CAS# 108-95-2).

CERCLA/SARA Section 311/312: Please refer to the GHS classification in Section 2

CERCLA/SARA Section 313: 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-nonylphenol, branched (CAS# 84852-15-3). Phenol (CAS# 108-95-2).

CERCLA Reportable quantity: Phenol (CAS# 108-95-2) 1,000 lbs. (454 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 3,5,10,11

Prepared by: Product Safety and Regulatory Affairs

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