# Safety Data Sheet



Revision Number: 002.0

1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name:

Product type: Epoxy H Restriction of Use: None ide Company address: Henkel Electronic Materials LLC 14000 Jamboree Road Irvine, CA 92606

LOCTITE STYCAST ES 1901 PTB known as HYSOL ES1901 PART B DUMMY A52 Epoxy Hardener None identified

Item number: ES19 Region: Unite

ES1901-A52\_EB1901 United States

Contact information: Telephone: +1 (888) 943-6535 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.henkel.com/electronics

1084621

### 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW		
DANGER:	COMBUSTIBLE LIQUID.	
	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.	
	MAY CAUSE AN ALLERGIC SKIN REACTION.	
	MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING	
	DIFFICULTIES IF INHALED.	

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1

PICTOGRAM(S)

#### **Precautionary Statements**

Prevention:	Keep away from heat, sparks, open flames, hot surfaces - no smoking. Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. In case of inadequate ventilation wear respiratory protection.
Response:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Wash contaminated clothing before reuse. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
Storage:	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.
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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	Percentage*	
Polymercaptan hardener	Proprietary	60 - 100	
Tertiary amine	Proprietary	5 - 10	
Monoethanolamine	141-43-5	1 - 5	

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

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:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Get medical attention. Wash clothing before reuse.	
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.	
Symptoms:	See Section 11.	
5. F	FIRE FIGHTING MEASURES	
Extinguishing media:	Foam, dry chemical or carbon dioxide. Do not use high volume water jet.	
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.	
Unusual fire or explosion hazards:	Closed containers may rupture (due to build up of pressure) when exposed extreme heat.	
Hazardous combustion products:	Oxides of carbon, oxides of nitrogen, irritating organic vapors. Hydrogen sulfide. Oxides of sulfur.	

## 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. Ensure adequate ventilation. Isolate area. Keep unnecessary personnel away. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed container until ready for 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. Refer to Section 8.

Storage:

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, please review labels on container or check the Technical Data Sheet.

## 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
Polymercaptan hardener	None	None	None	None
Tertiary amine	None	None	None	None
Monoethanolamine	3 ppm TWA 6 ppm STEL	3 ppm (6 mg/m3) PEL	None	None

**Engineering controls:** 

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Use a NIOSH approved air-purifying respirator if the potential to exceed

**Respiratory protection:** 

Eye/face protection:

Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an

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

apron or body suit to prevent skin contact.

showers and eye wash stations should be available.

established exposure limits exists.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid

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:** Viscosity: Decomposition temperature:

Clear Mercaptan Not available. Alkaline Not determined Not determined Not available. 1.12 Not available. 80 °C (176°F) Closed cup Not available. Not available. Not available. Not available. Not determined Not available. 11.15 %; 130.4 g/l Estimated Not available. Not available.

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# **10. STABILITY AND REACTIVITY**

Hazardous reactions:None under normal processing.Hazardous decomposition products:Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Hydrogen sulfide. Irritating organic vapours.Incompatible materials:Strong acids and oxidizing agents.Reactivity:Not available.Conditions to avoid:High temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.	Stability:	Stable under normal conditions of storage and use.	
products:vapours.Incompatible materials:Strong acids and oxidizing agents.Reactivity:Not available.Conditions to avoid:High temperatures. Heat, flames, sparks and other sources of ignition. Store away from	Hazardous reactions:	None under normal processing.	
Reactivity: Not available.   Conditions to avoid: High temperatures. Heat, flames, sparks and other sources of ignition. Store away from	•	, , , , , , , , , , , , , , , , , , , ,	
Conditions to avoid: High temperatures. Heat, flames, sparks and other sources of ignition. Store away from	Incompatible materials:	Strong acids and oxidizing agents.	
	Reactivity:	Not available.	
	Conditions to avoid:		

#### **11. TOXICOLOGICAL INFORMATION**

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

Potential Health Effects/Symptoms

Inhalation:	May cause allergic respiratory reaction. Coughing. Wheezing. Shortness of breath.
Skin contact:	Causes skin burns. May cause allergic skin reaction.
Eye contact:	Causes serious eye damage. Burns of the eye may cause blindness.
Ingestion:	Ingestion causes burns of the upper digestive and respiratory tracts. Danger of perforation of the esophagus and the stomach.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Polymercaptan hardener	None	No Records	
Tertiary amine	None	Irritant, Corrosive, Allergen, Respiratory	
Monoethanolamine	Oral LD50 (RAT) = 10.2 g/kg Dermal LD50 (RABBIT) = 1,025 mg/kg	Irritant, Kidney, Liver, Corrosive, Respiratory, Developmental	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polymercaptan hardener	No	No	No
Tertiary amine	No	No	No
Monoethanolamine	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.	
Hazardous waste number:	Not a RCRA hazardous waste.	
14. TRANSPORT INFORMATION		
The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.		
U.S. Department of Transportation G Proper shipping name: Hazard class or division: Identification number: Packing group: International Air Transportation (ICA Proper shipping name: Hazard class or division: Identification number: Packing group: Water Transportation (IMO/IMDG) Proper shipping name: Hazard class or division: Identification number:	Amines, liquid, corrosive, n.o.s. (Aliphatic amines) 8 UN 2735 III	
Packing group:		
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 above reporting de minimis	

CERCLA/SARA Section 302 EHS:	None above reporting de minimis
CERCLA/SARA Section 311/312:	Immediate Health, Delayed Health
CERCLA/SARA Section 313:	None above reporting de minimis

California Proposition 65:

#### **Canada Regulatory Information**

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

### **16. OTHER INFORMATION**

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

reproductive harm.

Prepared by: Tricia Voghell, Regulatory Affairs Specialist

**Issue date:** 09/05/2014

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

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