



Revision Number: 002.0

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**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** Loctite(R) Encap(R) 3183 Polyurethane Hardener **IDH number:** 233634  
**Product type:** Polyurethane hardener **Item number:** 39999  
**Region:** United States  
**Company address:** Henkel Electronic Materials LLC  
 14000 Jamboree Road  
 Irvine, CA 92606  
**Contact information:** Telephone: 1.888.9.HENKEL (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.henkelna.com

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

<b>Physical state:</b>	Liquid	<b>HEALTH:</b>	*1
<b>Color:</b>	Black	<b>FLAMMABILITY:</b>	1
<b>Odor:</b>	Aromatic	<b>PHYSICAL HAZARD:</b>	0
		<b>Personal Protection:</b>	See MSDS Section 8

**CAUTION:** MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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

**Potential Health Effects**

**Inhalation:** May cause respiratory tract irritation.  
**Skin contact:** Prolonged or repeated contact may cause irritation.  
**Eye contact:** May cause irritation.  
**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous components	CAS NUMBER	%
Castor oil	8001-79-4	60 - 100
Zeolites	1318-02-1	0.1 - 1
Carbon black	1333-86-4	0.1 - 1

**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:** Wash with soap and water. Remove contaminated clothing and footwear. Wash clothing before reuse. If symptoms develop and persist, 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. Never give anything by mouth to an unconscious person. Keep individual calm. Get medical attention.

## 5. FIRE FIGHTING MEASURES

**Flash point:** 163 °C (325.4 °F) Closed cup

**Autoignition temperature:** Not determined

**Flammable/Explosive limits - lower:** Not determined

**Flammable/Explosive limits - upper:** Not determined

**Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide.

**Special firefighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Unusual fire or explosion hazards:** Not available.

**Hazardous combustion products:** Oxides of carbon. Toxic and irritating vapors.

## 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:** Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container 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. Keep container closed. 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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Castor oil	None	None	None	None
Zeolites	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction. 1 mg/m3 TWA Respirable fraction.	None	None	None
Carbon black	3.5 mg/m3 TWA 3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 TWA	None	None

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

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

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid

**Color:** Black

**Odor:** Aromatic

**Odor threshold:** Not available.

**pH:** Not available.

**Vapor pressure:** 0.2 mm hg (20 °C (68°F))

**Boiling point/range:** Not available.

**Melting point/ range:** Not available.

**Specific gravity:** 1

**Vapor density:** 3.6 (Air = 1)

**Flash point:** 163 °C (325.4 °F) Closed cup

**Flammable/Explosive limits - lower:** Not determined

**Flammable/Explosive limits - upper:** Not determined

**Autoignition temperature:** Not determined

**Evaporation rate:** < 0.1

**Solubility in water:** Soluble

**Partition coefficient (n-octanol/water):** Not available.

**VOC content:** < 1 %; < 10 g/l (estimated value for resin and hardener mixed together)

## 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. Irritating vapors.

**Incompatible materials:** Strong oxidizing agents. Acids. Amines.

**Conditions to avoid:** Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Castor oil	No	No	No
Zeolites	No	No	No
Carbon black	No	Group 2B	No

Hazardous components	Health Effects/Target Organs
Castor oil	Irritant
Zeolites	Mutagen, Respiratory, Some evidence of carcinogenicity
Carbon black	Respiratory, Some evidence of carcinogenicity

## 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

### 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: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: None

### Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: 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 above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA 313: None above reporting de minimus

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

### 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.

**WHMIS hazard class:** D.2.A, D.2.B

## 16. OTHER INFORMATION

**This material safety data sheet contains changes from the previous version in sections:** New information added in Section(s): 1,2,3,6,7,8,10,11

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