# **Material Safety Data Sheet**





Revision Number: 001.1 Issue date: 02/27/2009

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) Encap(R) 3182 Polyurethane IDH number: 233626

Hardener

**Product type:** Polyurethane hardener **Item number:** 39995

Region: United States

Company address:Contact information:Henkel CorporationTelephone: 716.372.6300

211 Franklin Street Emergency telephone: 860.571.5100 Olean, New York 14760 Internet: www.electronics.henkel.us

#### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:

Physical state:Low-viscosity, LiquidHEALTH:\*1Color:BrownFLAMMABILITY:1Odor:AromaticPHYSICAL HAZARD:0

Personal Protection: 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: This material does not normally present an inhalation hazard, however, in applications where

vapors (caused by high temperatures) or mists (caused by mixing) are created, breathing may cause respiratory tract irritation. Contains crystalline silica (quartz), which is classified as a possible carcinogen. However, the crystalline silica present in this product is encapsulated in the liquid and will only be liberated if the product is sanded or abraded, and even then what is liberated will not be pure crystalline silica. Appropriate precautions, however, should be taken if

the product is sanded or abraded to prevent personnel from breathing the dust.

**Skin contact:** Prolonged or repeated contact may cause irritation.

**Eye contact:** May cause irritation.

Ingestion: Not expected under normal conditions of use.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders. Pre-existing skin or lung allergies may increase the chance of developing exaggerated allergic symptoms from exposure to this product. Asthma.

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	%
Quartz (SiO2)	14808-60-7	60 - 100
Castor Oil	Proprietary	30 - 60
Carbon black	1333-86-4	0.1 - 1

### 4. FIRST AID MEASURES

Inhalation:

IDH number: 233626

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). Wash clothing before reuse. Thoroughly clean shoes before reuse. If symptoms develop and persist, get

medical attention.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty

of water for at least 15 minutes. If eye irritation persists, consult a specialist.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. If symptoms develop

and persist, get medical attention.

### 5. FIRE FIGHTING MEASURES

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

Autoignition temperature:

Flammable/Explosive limits - lower:

Not available
Flammable/Explosive limits - upper:

Not available

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

IDH number: 233626

Hazardous combustion products: Oxides of carbon. Organic compounds.

#### 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: Evacuate and ventilate spill area; dike spill to prevent entry into water system;

wear full protective equipment during clean-up. Remove all sources of ignition. 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

partly filled, closed container until disposal.

### 7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Avoid contact with eyes, skin and clothing.

Do not taste or swallow. Keep container closed. Wash thoroughly after

handling

**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 contact Henkel Customer Service at 1-716-372-6300.

# 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
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.		None	None
Castor Oil	None	None	None	None
Carbon black	3.5 mg/m3 TWA	3.5 mg/m3 TWA	None	None

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not

sufficient to control airborne contamination below occupational 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.

**Skin protection:** The use of polyvinyl chloride gloves is recommended. Butyl rubber gloves.

Nitrile gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Low-viscosity, Liquid

Color: Brown
Odor: Aromatic
Odor threshold: Not available
pH: Not available
Vapor pressure: 0.2 mm Hg

Boiling point/range: > 149 °C (> 300.2 °F)

Melting point/ range:Not availableSpecific gravity:1.6Vapor density:3.6

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

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

Not available

< 0.1 (Ether = 1)

Soluble

Not available

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

## 10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Exothermic.

IDH number: 233626

Hazardous decomposition products: Oxides of carbon. Organic compounds.

**Incompatible materials:** Strong oxidizing agents.

Conditions to avoid: Heat, fumes, sparks and other sources of ignition. Store away from

incompatible materials. See "Handling and Storage" (Section 7) and

"Incompatibility" (Section 10).

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Quartz (SiO2)	Known carcinogen.	Group 1	No
Castor Oil	No	No	No
Carbon black	No	Group 2B	No

Hazardous components	Health Effects/Target Organs
Quartz (SiO2)	Immune system, Lung, Some evidence of carcinogenicity
Castor Oil	Irritant
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:
Hazard class or division:
Identification number:
Packing group:

Not regulated
None
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**

IDH number: 233626

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
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**

IDH number: 233626

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 Material Safety Data Sheet format

Prepared by: Dan Shaw, Regulatory Affairs Specialist

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.