# **Material Safety Data Sheet**



Revision Number: 002.1 Issue date: 03/16/2010

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:Loctite(R) Encap(R) 3141 Epoxy ResinIDH number:233530Product type:Epoxy resinItem number:39947

Region: United States

Company address:Contact information:Henkel CorporationTelephone: 860.571.5100

One Henkel Way Emergency telephone: 860.571.5100

Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:

Physical state:LiquidHEALTH:\*2Color:BlackFLAMMABILITY:1Odor:AromaticPHYSICAL HAZARD:0

Personal Protection: See MSDS Section 8

**WARNING**: MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

**Potential Health Effects** 

**Inhalation:** May cause respiratory tract irritation.

**Skin contact:** May cause allergic skin reaction. May cause skin irritation.

**Eye contact:** May cause irritation.

**Ingestion:** Not expected under normal conditions of use.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders. Skin allergies.

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	%
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	30 - 60
Quartz (SiO2)	14808-60-7	30 - 60
Calcium carbonate	471-34-1	10 - 30
Neopentyl glycol diglycidyl ether	17557-23-2	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. If symptoms develop and persist, get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes before

reuse.

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Eye contact: Immediately flush eyes with plenty of water 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 medical

attention.

## 5. FIRE FIGHTING MEASURES

Flash point: 249 °C (480.2 °F) Closed cup

Autoignition temperature:

Flammable/Explosive limits - lower:

Not available

Flammable/Explosive limits - upper:

Not available

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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: Personnel in vicinity and downwind should be evacuated. In case of fire, keep

containers cool with water spray. Burning produces obnoxious and toxic

fumes.

**Hazardous combustion products:** Oxides of carbon. Irritating organic fragments. Hydrocarbons. Phenolics.

Oxides of sulfur. Aldehydes.

# 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: 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. Flush area with water to remove trace residue.

## 7. HANDLING AND STORAGE

**Handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Use only with adequate ventilation. Keep

container closed.

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 (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
Epichlorohydrin-4,4'-isopropylidene diphenol resin	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
Calcium carbonate	10 mg/m3 TWA Total dust.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Neopentyl glycol diglycidyl ether	None	None	None	None
Carbon black	3.5 mg/m3 TWA	3.5 mg/m3 TWA	None	None

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor

concentration below established 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.

**Skin protection:**Use impermeable gloves and protective clothing as necessary to prevent skin

contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Color:

Black
Odor:

Aromatic
Odor threshold:

PH:

Not available
Vapor pressure:

Not available
Not available

**Boiling point/range:**  $> 149 \, ^{\circ}\text{C} \, (> 300.2 \, ^{\circ}\text{F})$ 

Melting point/ range: Not available

Specific gravity: 1.6

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Vapor density: Not available

Flash point: 249 °C (480.2 °F) Closed cup

Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water):
VOC content:
Not available
Insoluble
Not available
VOC content:
VOC q/l

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

**Hazardous reactions:** None under normal processing.

Hydrocarbons. Oxides of carbon. Oxides of sulfur. Phenolics. Aldehydes.

Incompatible materials: Strong oxidizing agents. Strong Lewis acids. Strong mineral acids. Strong

bases. Amines. Mercaptans.

**Conditions to avoid:** Store away from incompatible materials. Excessive heat.

# 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Quartz (SiO2)	Known carcinogen.	Group 1	No
Calcium carbonate	No	No	No
Neopentyl glycol diglycidyl ether	No	No	No
Carbon black	No	Group 2B	No

Hazardous components	Health Effects/Target Organs	
Epichlorohydrin-4,4'-isopropylidene diphenol resin	Allergen, Irritant	
Quartz (SiO2)	Immune system, Lung, Some evidence of carcinogenicity	
Calcium carbonate	Nuisance dust	
Neopentyl glycol diglycidyl ether	Allergen, Blood, Bone Marrow, Immune system, Irritant, Reproductive	
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

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk 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: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrine

Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A

Epichlorhydrine resin)

Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Marine pollutant: Bisphenol-A Epichlorhydrine resin

## 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.

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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
None above reporting de minimus

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** 

IDH number: 233530

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

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format., This Material Safety Data Sheet contains changes from the previous version in Section(s): 2, 3, 5, 10, 14

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