



Revision Number: 009.0

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** LOCTITE 3614  
**Product type:** One-part epoxy  
**Restriction of Use:** None identified  
**Company address:**  
 Henkel Corporation  
 One Henkel Way  
 Rocky Hill, Connecticut 06067

**IDH number:** 247791  
**Item number:** 26652  
**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  
 Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**WARNING:** CAUSES SKIN IRRITATION.  
 MAY CAUSE AN ALLERGIC SKIN REACTION.  
 CAUSES SERIOUS EYE IRRITATION.  
 SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	2

### PICTOGRAM(S)



### Precautionary Statements

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.

**Response:** IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.

**Storage:** Store locked up.

**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

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*
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	50 - 60
Talc	14807-96-6	10 - 20
4,4'-(1-Methylethylidene) bisphenol reaction products with (Chloromethyl) oxirane, 2-methyl-1H-imidazole, (phenoxymethyl) oxirane, p	134091-76-2	10 - 20
Treated fumed silica	67762-90-7	5 - 10
Phenol polymer with formaldehyde, glycidyl ether	28064-14-4	1 - 5
2,3-Epoxypropyl neodecanoate	26761-45-5	1 - 5
Benzenesulfonamide, ar-methyl, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine	39277-28-6	1 - 5
Silica, amorphous, fumed, crystal-free	112945-52-5	0.1 - 1
4,4'-Isopropylidenediphenol	80-05-7	0.1 - 1
4,4'-Methylenediphenol, polymer with 1-chloro-2,3-epoxypropane	42423-25-6	0.1 - 1
Titanium dioxide	13463-67-7	0.1 - 1
Quartz (SiO <sub>2</sub> ), <1% respirable	14808-60-7	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

<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Skin contact:</b>	Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Symptoms:</b>	See Section 11.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special fire fighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Unusual fire or explosion hazards:</b>	Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

**Hazardous combustion products:**

Oxides of carbon. Oxides of nitrogen. Aldehydes. 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. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw dust). 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. Do not taste or swallow. 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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None
Talc	2 mg/m3 TWA Respirable fraction.	0.1 mg/m3 TWA Respirable. 2.4 MPPCF TWA Respirable. 20 MPPCF TWA	None	50 ppm
4,4'-(1-Methylethylidene) bisphenol reaction products with (Chloromethyl) oxirane, 2-methyl-1H-imidazole, (phenoxymethyl) oxirane, p	None	None	None	None
Treated fumed silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Phenol polymer with formaldehyde, glycidylether	None	None	None	None
2,3-Epoxypropyl neodecanoate	None	None	None	None
Benzenesulfonamide, ar-methyl, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
4,4'-Isopropylidenediphenol	None	None	None	None
4,4'-Methylenediphenol, polymer with 1-chloro-2,3-epoxypropane	None	None	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 PEL Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Quartz (SiO <sub>2</sub> ), <1% respirable	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust.	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:**

Use impermeable gloves and protective clothing as necessary to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Red
<b>Odor:</b>	mild
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	Not determined
<b>Vapor pressure:</b>	< 1.0 mm hg (20 °C (68°F))
<b>Boiling point/range:</b>	Not available.
<b>Melting point/range:</b>	Not determined
<b>Specific gravity:</b>	1.22
<b>Vapor density:</b>	Not determined
<b>Flash point:</b>	> 93 °C (> 199.4 °F) Tagliabue closed cup
<b>Flammable/Explosive limits - lower:</b>	Not determined
<b>Flammable/Explosive limits - upper:</b>	Not determined
<b>Autoignition temperature:</b>	Not determined
<b>Flammability:</b>	Not applicable
<b>Evaporation rate:</b>	Not determined
<b>Solubility in water:</b>	Insoluble
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>VOC content:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal conditions.
<b>Hazardous reactions:</b>	None under normal processing.
<b>Hazardous decomposition products:</b>	Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Aldehydes. Irritating vapors.
<b>Incompatible materials:</b>	Can react vigorously with strong oxidizing agents, strong Lewis or mineral acids, and strong mineral and organic bases, especially primary and secondary aliphatic amines. Mercaptans.
<b>Reactivity:</b>	Not available.
<b>Conditions to avoid:</b>	Store away from incompatible materials. Heat, flames, sparks and other sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

<b>Relevant routes of exposure:</b>	Skin, Inhalation, Eyes, Ingestion
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## Potential Health Effects/Symptoms

<b>Inhalation:</b>	May cause respiratory tract irritation. 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. May irritate the nose and respiratory system.
<b>Skin contact:</b>	Causes skin irritation. May cause allergic skin reaction.
<b>Eye contact:</b>	Causes serious eye irritation.
<b>Ingestion:</b>	May cause gastrointestinal tract irritation if sw allowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	Allergen, Irritant
Talc	None	Irritant, Lung, Some evidence of carcinogenicity
4,4'-(1-Methylethylidene) bisphenol reaction products with (Chloromethyl) oxirane, 2-methyl-1H-imidazole, (phenoxymethyl) oxirane, p	None	No Records
Treated fumed silica	None	Irritant
Phenol polymer with formaldehyde, glycidyl ether	None	Allergen, Irritant
2,3-Epoxypropyl neodecanoate	None	Irritant, Allergen
Benzenesulfonamide, ar-methyl, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine	None	No Records
Silica, amorphous, fumed, crystal-free	None	Nuisance dust
4,4'-Isopropylidenediphenol	Oral LD50 (Rat) = 4,100 mg/kg Oral LD50 (Rat) = 3,300 mg/kg Oral LD50 (Mouse) = 5,280 mg/kg Oral LD50 (Mouse) = 2,500 mg/kg Oral LD50 (Mouse) = 4,100 mg/kg	Allergen, Blood, Irritant, Kidney, Reproductive, Spleen
4,4'-Methylenediphenol, polymer with 1-chloro-2,3-epoxypropane	None	No Data
Titanium dioxide	None	Irritant, Respiratory, Some evidence of carcinogenicity
Quartz (SiO <sub>2</sub> ), <1% respirable	None	Immune system, Lung, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Talc	No	Group 2B	No
4,4'-(1-Methylethylidene) bisphenol reaction products with (Chloromethyl) oxirane, 2-methyl-1H-imidazole, (phenoxymethyl) oxirane, p	No	No	No
Treated fumed silica	No	No	No
Phenol polymer with formaldehyde, glycidyl ether	No	No	No
2,3-Epoxypropyl neodecanoate	No	No	No
Benzenesulfonamide, ar-methyl, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
4,4'-Isopropylidenediphenol	No	No	No
4,4'-Methylenediphenol, polymer with 1-chloro-2,3-epoxypropane	No	No	No
Titanium dioxide	No	Group 2B	No
Quartz (SiO <sub>2</sub> ), <1% respirable	Known To Be Human Carcinogen.	Group 1	Yes

## 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: This product may contain traces of: D005. Barium. However this product is only classifiable as hazardous waste if it exhibits the characteristics of toxicity as shown by the toxicity characteristic leaching procedure (TCLP). Under RCRA, it is the responsibility of the end user of this product to determine whether it meets this criteria at the time of disposal.

## 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 Ground (49 CFR)

Proper shipping name: Not regulated (Up to 300 ml max per inner/primary package when shipped as originally packaged only)  
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 Epichlorhydrin resin) (Up to 300 ml max per inner/primary package when shipped as originally packaged only)  
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 Epichlorhydrin resin) (Up to 300 ml max per inner/primary package when shipped as originally packaged only)  
Hazard class or division: 9  
Identification number: UN 3082  
Packing group: III  
Marine pollutant: Bisphenol-A Epichlorhydrin 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.

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: 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: 2**

**Prepared by:** Product Safety and Regulatory Affairs

**Issue date:** 11/30/2017

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