



Revision Date: 02/28/2007 **Issue date:** 02/28/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite 3616 **Item No.**: 29848 / IDH No. 244565

Product type: One-Part Epoxy Region: United States

Company address:Contact Information:Henkel CorporationTelephone: 626.968.6511

15051 East Don Julian Road Emergency Telephone: 860.571.5100 Industry, California 91746 Internet: www.electronics.henkel.us

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	<u>%</u> 30-60	ACGIH TLV None	OSHA PEL None	OTHER None
Calcium carbonate 1317-65-3	10-30	10 mg/m³ TWA (particulate matter containing no asbestos and <1% crystalline silica)	15 mg/m³ TWA total dust 5 mg/m³ TWA respirable fraction	None
Epoxy amine adduct Proprietary	10-30	None	None	None
Glycidyl ester 26761-45-5	5-10	None	None	None
Amorphous fumed silica 68611-44-9	5-10	None	None	None
Treated fumed silica 67762-90-7	1-5	10mg/m³ Inhalable fraction, 3mg/m³ Respirable fraction, TWA	5mg/m³ Respirable dust, 15mg/m³ Total dust	None
Phenol, polymer with formaldehyde, glycidyl ether 28064-14-4	1-5	None None	None	None
Titanium dioxide 13463-67-7	0.1-1	10 mg/m³ TWA	15 mg/m³ TWA total dust	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

 Physical state:
 Liquid
 HEALTH:
 2*

 Color:
 Red
 FLAMMABILITY:
 1

 Odor:
 Mild
 PHYSICAL HAZARD:
 1

 Personal Protection:
 See Section 8

WARNING: MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

MAY BE HARMFUL IF SWALLOWED OR INHALED.

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

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. May cause irritation to nose and throat.

Coughing. Sneezing.

Item No.: 29848 / IDH No. 244565 **Product name: Loctite 3616**

1 of 5

Skin contact: May cause allergic skin reaction. May cause severe skin irritation. May cause sensitization by skin

contact. Repeated or prolonged contact can result in drying of skin. Contact at elevated temperatures

may cause thermal burns. Redness.

Eye contact: May cause irritation. Blurred vision. Burning sensation. Swelling. Redness.

Ingestion: May be harmful if swallowed.

Existing conditions aggravated by

exposure:

Pre-existing skin, eye and respiratory allergies. Skin disorders. Dermatitis. Eczema. Respiratory

disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove 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 shoes. Immediately flush skin with plenty of water (using soap, if

available). Get medical attention if symptoms develop and persist. Wash clothing before reuse.

Thoroughly clean shoes before reuse.

Eye contact: Check for and remove any contact lenses. 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. Give a conscious person

several glasses of water. Never give anything by mouth to an unconscious person. Get medical

attention if symptoms develop and persist.

5. FIRE-FIGHTING MEASURES

Flash point: Greater than 93°C (200°F) Tagliabue 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 fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Use water

spray to keep fire exposed containers cool.

Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Calcium oxide. Aldehydes. Phenolics. Hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.

Clean-up methods: Ensure adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Soak

up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain

the spill in a 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.

Do not breathe mist or vapors. 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.

Incompatible products: Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (626) 968-6511

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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).

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

Eye/face protection: Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Red
Odor: Mild

Vapor pressure: Less than 1 mm Hg at 20°C (68°F)

pH: Not determined Boiling point/range: Not determined Melting point/range: Not determined Specific gravity: Not determined Vapor density: Not determined Evaporation rate: Not determined Solubility in water: Insoluble. Partition coefficient (n-octanol/water): Not available **VOC** content: Not available

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Hazardous polymerization:None under normal processing.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Calcium oxide. Aldehydes. Phenolics. Hydrocarbons.

Incompatability: 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. Fluorine.

Aluminum. Ammonium salts. Alkalis. Water.

Conditions to avoid: Storage with incompatible materials. Heat, flames, sparks and other sources of ignition. Avoid contact

with acids and oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	No	No	No
Calcium carbonate 1317-65-3	No	No	No
Epoxy amine adduct Proprietary	No	No	No
Glycidyl ester 26761-45-5	No	No	No
Amorphous fumed silica 68611-44-9	No	No	No
Treated fumed silica 67762-90-7	No	No	No
Phenol, polymer with formaldehyde, glycidyl ether 28064-14-4	No	No	No
Titanium dioxide 13463-67-7	No	Group 2B	Yes

Item No.: 29848 / IDH No. 244565 **Product name: Loctite 3616**

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	Allergen, Irritant
Calcium carbonate 1317-65-3	Nuisance dust
Epoxy amine adduct Proprietary	No data
Glycidyl ester 26761-45-5	Allergen, Irritant
Amorphous fumed silica 68611-44-9	No Target Organs
Treated fumed silica 67762-90-7	Irritant
Phenol, polymer with formaldehyde, glycidyl ether 28064-14-4	Allergen, Irritant
Titanium dioxide 13463-67-7	Irritant, Respiratory

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this section 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 (Up to 300 ml when shipped as originally packaged by Henkel only)

Hazard class or division:
Identification number:
Packing group:
None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated (Up to 300 ml when shipped as originally packaged by Henkel only)

Hazard class or division:
Identification number:
Packing group:
None

WaterTransportation (IMO/IMDG):

Proper shipping name: Not regulated (Up to 300 ml when shipped as originally packaged by Henkel only)

Hazard class or division:
Identification number:
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.

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

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

CERCLA/SARA 313: None above reporting de minimus.

California Proposition 65: This product contains a chemical known to 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.

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. Updated WHMIS.

Prepared by: Melissa Frisby, Product Safety and Regulatory Affairs Specialist

For Safety and Regulatory Information contact:

Product Safety and Regulatory Affairs,

Rocky Hill, CT. 860-571-5204

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.

Item No.: 29848 / IDH No. 244565 Product name: Loctite 3616