



Revision Date: 08/04/2006

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Loctite(R) 680 Retaining Compound Slip Fit  
**Product type:** Anaerobic Adhesive  
**Company address:** Henkel Corporation  
1001 Trout Brook Crossing  
Rocky Hill, Connecticut 06067

**Item No. :** 68015  
**Region:** United States  
**Contact Information:**  
Telephone: 860.571.5100  
Emergency telephone: 860.571.5100  
Internet: www.loctite.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Aromatic dimethacrylate ester 24448-20-2	30-60	None	None	None
Hydroxyalkyl methacrylate 27813-02-1	30-60	None	None	1 ppm TWA; 3 ppm STEL
Bisphenol A fumarate resin 39382-25-7	10-30	None	None	None
Cumene hydroperoxide 80-15-9	1-5	None	None	1 ppm (6 mg/m <sup>3</sup> ) Skin (WEEL), 1ppm, skin TWA, (WEEL)
Polyglycol dimethacrylate 25852-47-5	1-5	None	None	None
1-Acetyl-2-phenylhydrazine 114-83-0	0.1-1	None	None	None

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

#### HMIS:

**Physical state:** Liquid  
**Color:** Green  
**Odor:** Mild

**HEALTH:** 2\*  
**FLAMMABILITY:** 1  
**PHYSICAL HAZARD:** 1  
**Personal Protection:** See Section 8

**WARNING:** CAUSES EYE IRRITATION.  
MAY CAUSE ALLERGIC SKIN REACTION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.  
MAY CAUSE SKIN IRRITATION.  
MAY BE HARMFUL IF SWALLOWED.

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

#### Potential Health Effects

**Inhalation:** May cause respiratory tract irritation.  
**Skin contact:** May cause skin irritation. May cause allergic skin reaction.  
**Eye contact:** Contact with eyes will cause irritation.  
**Ingestion:** May be harmful if swallowed.

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**Existing conditions aggravated by exposure:**

Eye, skin, and respiratory disorders.

**See Section 11 for additional toxicological information.**

#### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If symptoms develop and persist, get medical attention.

**Skin contact:** Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.

**Eye contact:** Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.

**Ingestion:** Do not induce vomiting. Keep individual calm. Obtain medical attention.

#### 5. FIRE-FIGHTING MEASURES

**Flash point:** Greater than 93°C (200°F) Tagliabue closed cup

**Autoignition temperature:** Not available

**Flammable/Explosive limits-lower %:** Not available

**Flammable/Explosive limits-upper %:** Not available

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

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

**Unusual fire or explosion hazards:** None

**Hazardous combustion products:** Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapors.

#### 6. ACCIDENTAL RELEASE MEASURES

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

**Clean-up methods:** Ensure adequate ventilation. Soak up with inert absorbent. 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. Avoid breathing vapor and mist. Wash thoroughly after handling.

**Storage:** For safe storage, store at or below 38°C (100°F). 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 (800) 243-4874.

#### 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.

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**Respiratory protection:** Use NIOSH approved respirator if there is potential to exceed exposure limit(s). The recommended air purifying respirator cartridge is an organic vapor/particulate filter combination cartridge (OV/P100).

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

**Eye/face protection:** Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid  
**Color:** Green  
**Odor:** Mild  
**Vapor pressure:** Less than 5 mm Hg at 27°C (80°F)  
**pH:** Not applicable  
**Boiling point/range:** Greater than 149°C (300°F)  
**Melting point/range:** Not available  
**Specific gravity:** 1.11 at 26.6°C (80°F)  
**Vapor density:** Not available  
**Evaporation rate:** Not available  
**Solubility in water:** Slight  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** 4.2216%; 40.2971 grams/liter

## 10. STABILITY AND REACTIVITY

**Stability:** Stable.

**Hazardous polymerization:** Will not occur.

**Hazardous decomposition products:** Oxides of carbon. Irritating organic vapors. Phenols.

**Incompatibility:** Strong oxidizers. Reducing agents. Acids. Bases. Rust. Zinc. Aluminum. Iron. Copper. Alkalis. Aldehydes. Amines. Free radical initiators. Peroxides.

**Conditions to avoid:** Exposure to sunlight. Heat, flames and sparks. See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

## 11. TOXICOLOGICAL INFORMATION

**Product toxicity data:** Acute oral LD50 greater than 5000mg/kg (rat)(estimated). Acute dermal LD50 greater than 2000 mg/kg (rabbit) (estimated).

### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Aromatic dimethacrylate ester 24448-20-2	No	No	No
Hydroxyalkyl methacrylate 27813-02-1	No	No	No
Bisphenol A fumarate resin 39382-25-7	No	No	No
Cumene hydroperoxide 80-15-9	No	No	No
Polyglycol dimethacrylate 25852-47-5	No	No	No
1-Acetyl-2-phenylhydrazine 114-83-0	No	No	No

### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Aromatic dimethacrylate ester 24448-20-2	Allergen, Irritant
Hydroxyalkyl methacrylate 27813-02-1	Allergen, Irritant
Bisphenol A fumarate resin 39382-25-7	Allergen, Irritant
Cumene hydroperoxide 80-15-9	Allergen, Central nervous system, Corrosive, Irritant, Mutagen
Polyglycol dimethacrylate 25852-47-5	Allergen, Irritant
1-Acetyl-2-phenylhydrazine 114-83-0	Allergen, Blood, Kidney, Mutagen, 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:** Dispose of according to Federal, State and local governmental regulations.

**EPA hazardous waste number:** Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

**U.S. Department of Transportation Ground (49 CFR):**

**Proper shipping name:** Unrestricted  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**International Air Transportation (ICAO/IATA):**

**Proper shipping name:** Unrestricted  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**WaterTransportation (IMO/IMDG):**

**Proper shipping name:** Unrestricted  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None  
**Marine pollutant:** None

## 15. REGULATORY INFORMATION

### United States Regulatory Information

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12 (b) Export Notification:</b>	4-Methoxyphenol (150-76-5).
<b>CERCLA/SARA Section 302 EHS:</b>	None above reporting de minimus.
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health Hazard, Delayed Health Hazard
<b>CERCLA/SARA 313:</b>	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Cumene hydroperoxide (CAS# 80-15-9) .
<b>California Proposition 65:</b>	This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

### Canada Regulatory Information

<b>CEPA DSL/NDSL Status:</b>	All components are listed on or are exempt from listing on the Domestic Substances List.
<b>WHMIS hazard class:</b>	D.2.B

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 8

**Prepared by:** Dan Shaw, Product Safety and Regulatory Affairs Specialist

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