



Revision Number: 005.0

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1. PRODUCT AND COMPANY IDENTIFICATION

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|--|---|
| Product name: Loctite® 680 Retaining Compound | IDH number: 234948 |
| Product type: Anaerobic Adhesive | Item number: 68015 |
| | Region: United States |
| Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067 | Contact information: Telephone: 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

| | |
|-------------------------------|--|
| Physical state: Liquid | HEALTH: *2 |
| Color: Green | FLAMMABILITY: 1 |
| Odor: Mild | PHYSICAL HAZARD: 1 |
| | Personal Protection: See MSDS Section 8 |

HMIS:

WARNING: CAUSES EYE IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE SKIN IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

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

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

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 | % |
|---|------------|---------|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | 24448-20-2 | 30 - 60 |
| Hydroxyalkyl methacrylate | 27813-02-1 | 30 - 60 |
| Bisphenol A fumarate resin | 39382-25-7 | 10 - 30 |
| Cumene hydroperoxide | 80-15-9 | 1 - 5 |
| Polyglycol dimethacrylate | 25852-47-5 | 1 - 5 |
| 1-Acetyl-2-phenylhydrazine | 114-83-0 | 0.1 - 1 |
| Cumene | 98-82-8 | 0.1 - 1 |

4. FIRST AID MEASURES

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| Inhalation: | Move to fresh air. If symptoms develop and persist, get medical attention. |
| Skin contact: | Wash with soap and water. Remove contaminated clothing and footwear. Wash clothing before reuse. If symptoms develop and persist, get medical attention. |
| 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. Get medical attention. |

5. FIRE FIGHTING MEASURES

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| Flash point: | > 93.3 °C (> 199.94 °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. Foam, dry chemical or carbon dioxide. |
| Special firefighting procedures: | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. |
| Unusual fire or explosion hazards: | None None |
| Hazardous combustion products: | Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours. Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours. |

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

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| Environmental precautions: | Do not allow product to enter sewer or waterways. |
| Clean-up methods: | For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal. |

7. HANDLING AND STORAGE

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| Handling: | Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. |
| Storage: | For safe storage, store at or below 38 °C (100.4 °F) 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 |
|---|------------|---|---|-------------------------|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | None | None | None | None |
| Hydroxyalkyl methacrylate | None | None | None | 1 ppm TWA 3 ppm STEL |
| Bisphenol A fumarate resin | None | None | None | None |
| Cumene hydroperoxide | None | None | 1 ppm (6 mg/m ³) TWA (SKIN) | None |
| Polyglycol dimethacrylate | None | None | None | None |
| 1-Acetyl-2-phenylhydrazine | None | None | None | None |
| Cumene | 50 ppm TWA | 50 ppm (245 mg/m ³) TWA (SKIN) | 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). Use an organic vapor respirator for concentrations exceeding the Occupational Exposure Limit.

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. Neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|--|
| Physical state: | Liquid |
| Color: | Green |
| Odor: | Mild |
| Odor threshold: | Not available. |
| pH: | Not applicable |
| Vapor pressure: | < 5 mm hg (27 °C (80.6 °F)) |
| Boiling point/range: | > 149 °C (> 300.2 °F) |
| Melting point/ range: | Not available. |
| Specific gravity: | 1.11 at 26.6 °C (79.88 °F) |
| Vapor density: | Not available. |
| Flash point: | > 93.3 °C (> 199.94 °F) Tagliabue closed cup |
| Flammable/Explosive limits - lower: | Not available. |
| Flammable/Explosive limits - upper: | Not available. |
| Autoignition temperature: | Not available. |
| Evaporation rate: | Not available. |
| Solubility in water: | Slight |
| Partition coefficient (n-octanol/water): | Not available. |
| VOC content: | 4.22 %; 40.3 g/l |

10. STABILITY AND REACTIVITY

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| Stability: | Stable |
| Hazardous reactions: | Will not occur. |
| Hazardous decomposition products: | Oxides of carbon. Irritating organic vapours. Phenolics. |
| Incompatible materials: | Strong oxidizing agents. Reducing agents. Acids. Bases. Rust. Zinc. Aluminum. Iron. Copper. Alkalis. Aldehydes. Amines. Free radical initiators. Peroxides. |
| Conditions to avoid: | Exposure to sunlight. Heat, flames, sparks and other sources of ignition. See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10). |

11. TOXICOLOGICAL INFORMATION

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|----------------|-----------------|---|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | No | No | No |
| Hydroxyalkyl methacrylate | No | No | No |
| Bisphenol A fumarate resin | No | No | No |
| Cumene hydroperoxide | No | No | No |
| Polyglycol dimethacrylate | No | No | No |
| 1-Acetyl-2-phenylhydrazine | No | No | No |
| Cumene | No | Group 2B | No |

| Hazardous components | Health Effects/Target Organs |
|---|--|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | Irritant, Allergen |
| Hydroxyalkyl methacrylate | Irritant, Allergen |
| Bisphenol A fumarate resin | No Target Organs |
| Cumene hydroperoxide | Allergen, Central nervous system, Corrosive, Irritant, Mutagen |
| Polyglycol dimethacrylate | Irritant, Allergen |
| 1-Acetyl-2-phenylhydrazine | Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity |
| Cumene | Central nervous system, Irritant, Lung |

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: Not regulated
Hazard class or division: None
Identification number: None
Packing group: 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

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| 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: | None above reporting de minimus |
| CERCLA/SARA Section 311/312: | Immediate Health, Delayed Health |
| CERCLA/SARA 313: | 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). |
| CERCLA Reportable quantity: | Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 kg) |
| 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

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|------------------------------|---|
| 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 information added in Section(s): 1, 3, 8, 11, 15

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