1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) High Strength Sleeve Retainer 640  
IDH number: 492147  
Product type: Anaerobic Adhesive  
Item number: 37484  
Region: United States  
Company address:  
Henkel Corporation  
1001 Trout Brook Crossing  
Rocky Hill, Connecticut 06067  
Contact information:  
Telephone: 860.571.5100  
Emergency telephone: 860.571.5100  
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Liquid  
Color: Green  
Odor: Sharp, Irritating  
HMIS: HEALTH: *2  
FLAMMABILITY: 1  
PHYSICAL HAZARD: 1  
Personal Protection: See MSDS Section 8

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

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: May cause irritation to nose and throat.  
Skin contact: Causes skin irritation. May cause allergic skin reaction.  
Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.  
Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation if swallowed.

Existing conditions aggravated by exposure: Acrylic acid: Respiratory disorders. Lung disease. 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

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS NUMBER</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane Methacrylate Resin</td>
<td>Proprietary</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Polyglycol dimethacrylate</td>
<td>109-16-0</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Hydroxyalkyl methacrylate</td>
<td>27813-02-1</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Acrylic acid</td>
<td>79-10-7</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Cumene hydroperoxide</td>
<td>80-15-9</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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. Never give anything by mouth to an unconscious person. Keep individual calm. Get medical attention.

### 5. FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>&gt; 93.3 °C (&gt; 199.94 °F) Tagliabue closed cup</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammable/Explosive limits - lower</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammable/Explosive limits - upper</td>
<td>Not available</td>
</tr>
<tr>
<td>Extinguishing media</td>
<td>Foam, dry chemical or carbon dioxide.</td>
</tr>
<tr>
<td>Special firefighting procedures</td>
<td>Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.</td>
</tr>
<tr>
<td>Unusual fire or explosion hazards</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 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, sawdust). Store in a partly filled, closed container until disposal.

### 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.

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.
<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane Methacrylate Resin</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Polyglycol dimethacrylate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Hydroxyalkyl methacrylate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>1 ppm TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 ppm STEL</td>
</tr>
<tr>
<td>Acrylic acid</td>
<td>2 ppm TWA</td>
<td>None</td>
<td>None</td>
<td>1 ppm TWA</td>
</tr>
<tr>
<td>(SKIN)</td>
<td></td>
<td></td>
<td></td>
<td>3 ppm STEL</td>
</tr>
<tr>
<td>Cumene hydroperoxide</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>1 ppm (6 mg/m3)</td>
</tr>
<tr>
<td>(SKIN)</td>
<td></td>
<td></td>
<td></td>
<td>TWA</td>
</tr>
</tbody>
</table>

**Engineering controls:**  
Provide adequate local exhaust ventilation to maintain worker exposure below 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. Neoprene gloves. Butyl rubber gloves. Natural rubber gloves.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Physical state:** Liquid
- **Color:** Green
- **Odor:** Sharp, Irritating
- **Odor threshold:** Not available
- **pH:** Not applicable
- **Vapor pressure:** < 10 mm hg (27 °C (80.6 °F))
- **Boiling point/range:** > 149 °C (> 300.2 °F)
- **Melting point/ range:** Not available
- **Specific gravity:** 1.12
- **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
- **Solvency in water:** Slight
- **Partition coefficient (n-octanol/water):** Not available
- **VOC content:** 3.04 %; 29.05 g/l

### 10. STABILITY AND REACTIVITY

- **Stability:** Stable
- **Hazardous reactions:** Will not occur.
- **Incompatible materials:** Strong oxidizing agents.
- **Conditions to avoid:** See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

### 11. TOXICOLOGICAL INFORMATION

- **Acute oral product toxicity:** LD50 (rat) > 5,000 mg/kg (Estimated)
- **Acute dermal product toxicity:** LD50 (rabbit) > 2,000 mg/kg (Estimated)
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

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). Acrylic acid (CAS# 79-10-7). 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.

Canada Regulatory Information

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

WHMIS hazard class: 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.

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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