Material Safety Data Sheet

Revised Date: 01/25/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- **Product name:** 545 Thread Sealant Pneumatic/Hydraulic Fittings
- **Product type:** Anaerobic Sealant
- **Company address:** Henkel Corporation
  1001 Trout Brook Crossing
  Rocky Hill, Connecticut 06067
- **Item No.:** 54531
- **Region:** United States
- **Contact Information:**
  - Telephone: 860.571.5100
  - Emergency telephone: 860.571.5100
  - Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous component</th>
<th>%</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyglycol dioctanoate 18268-70-7</td>
<td>30-60</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Polyglycol dimethacrylate 23562-47-9</td>
<td>10-30</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Hydroxyethyl methacrylate 866-77-9</td>
<td>10-30</td>
<td>None</td>
<td>None</td>
<td>3 ppm (ceiling)</td>
</tr>
<tr>
<td>Silica, amorphous, fumed, crystalline-free 112945-52-5</td>
<td>1-5</td>
<td>6 mg/m³ TWA</td>
<td>10 mg/m³ TWA</td>
<td>3 mg/m³ TWA respirable dust</td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>1-5</td>
<td>None</td>
<td>None</td>
<td>1 ppm (6 mg/m³) Skin (WEEL)</td>
</tr>
<tr>
<td>1-Acetyl-2-phenylhydrazine 114-83-0</td>
<td>0.1-1</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

- **HMIS:**
  - **HEALTH:** 2
  - **FLAMMABILITY:** 1
  - **PHYSICAL HAZARD:** 1
- **Personal Protection:** See 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 respiratory tract irritation.
- **Skin contact:** Moderate skin irritation. May cause allergic skin reaction.
- **Eye contact:** Contact with eyes will cause irritation.
- **Ingestion:** May be harmful if swallowed.

---

1 of 5

Product name: 545 Thread Sealant Pneumatic/Hydraulic Fittings
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


6. ACCIDENTAL RELEASE MEASURES

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

Clean-up methods: Soak up with inert absorbent. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling: 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: No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limits.

Item No.: 54531

Product name: 545 Thread Sealant Pneumatic/Hydraulic Fittings

2 of 5
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. Neoprene, butyl rubber, natural rubber gloves. Glove recommendations are based upon permeation study results for similar products.

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

See Section 2 for exposure limits.

2. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Purple
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: 1.02
Vapor density: Not available
Evaporation rate: Not available
Solubility in water: Slight
Partition coefficient (n-octanol/water): Not available
VOC content: 1.9912%; 19.0069 grams/liter

3. STABILITY AND REACTIVITY

Stability: Stable.
Hazardous polymerization: Will not occur.


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

4. TOXICOLOGICAL INFORMATION

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

Carcinogen Status

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyglycol dioctanoate 1526-79-7</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Polyglycol dimethacrylate 25852-47-5</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Hydroxysilky methacrylate 868-77-9</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Silica, amorphous, fumed, crystalline-free 112945-52-5</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>1-Acetyl-2-pherylhydrazine 114-83-0</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

5. Literature Referenced Target Organ & Other Health Effects

Item No.: 54531

Product name: 545 Thread Sealant Pneumatic/Hydraulic Fittings

3 of 5
<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Health Effects/Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyglycol dioctanoate 15268-70-7</td>
<td>Irritant</td>
</tr>
<tr>
<td>Polyglycol dimethacrylate 25852-47-5</td>
<td>Allergen, Irritant</td>
</tr>
<tr>
<td>Hydroxyethyl methacrylate 868-77-9</td>
<td>Allergen, Irritant</td>
</tr>
<tr>
<td>Silica, amorphous, fumed, crystalline-free 112945-52-5</td>
<td>Nuisance dust</td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>Allergen, Central nervous system, Corrosive, Irritant, Mutagen</td>
</tr>
<tr>
<td>1-Acetyl-2-phenylhydrazine 114-83-0</td>
<td>Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity</td>
</tr>
</tbody>
</table>

**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

Item No.: 54531

Product name: 545 Thread Sealant Pneumatic/Hydraulic Fittings

4 of 5
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: 4-Methoxyphenol (150-76-5).

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
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# 80-15-8).

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.
WHMIS hazard class: D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 9

Prepared by: Kyra Kozak Woods, Product Safety and Regulatory Affairs Specialist

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.