



Revision Number: 005.0

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## 1. PRODUCT AND COMPANY IDENTIFICATION

|                         |   |                             |  |
|-------------------------|---|-----------------------------|--|
| <b>Product name:</b>    | <b>LOCTITE® 222MS™ THREADLOCKER<br/>LOW STRENGTH</b>                  | <b>IDH number:</b>          | 135333   |
| <b>Product type:</b>    | Anaerobic Sealant   | <b>Item number:</b>         | 22221  |
| <b>Company address:</b> | Henkel Corporation<br>One Henkel Way<br>Rocky Hill, Connecticut 06067 | <b>Region:</b>              | United States  |
|                         |   | <b>Contact information:</b> | Telephone: 860.571.5100<br>MEDICAL EMERGENCY Phone: Poison Control Center<br>1-877-671-4608 (toll free) or 1-303-592-1711<br>TRANSPORT EMERGENCY Phone: CHEMTREC<br>1-800-424-9300 (toll free) or 1-703-527-3887<br>Internet: www.henkelna.com |

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

|                        |        |                             |                    |
|------------------------|--------|-----------------------------|--------------------|
| <b>Physical state:</b> | Liquid | <b>HEALTH:</b>              | *2                 |
| <b>Color:</b>          | Purple | <b>FLAMMABILITY:</b>        | 1                  |
| <b>Odor:</b>           | mild   | <b>PHYSICAL HAZARD:</b>     | 1                  |
|                        |        | <b>Personal Protection:</b> | See MSDS Section 8 |

**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

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | May cause respiratory tract irritation.                      |
| <b>Skin contact:</b> | May cause allergic skin reaction. May cause skin irritation. |
| <b>Eye contact:</b>  | Contact with eyes will cause irritation.                     |
| <b>Ingestion:</b>    | Not expected to be harmful by ingestion.                     |

**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  | %       |
|--|-------------|---------|
| Polyglycol dimethacrylate              | 25852-47-5  | 30 - 60 |
| Oleic acid 5.5EO                       | 9004-96-0   | 30 - 60 |
| Saccharin                              | 81-07-2     | 1 - 5   |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 1 - 5   |
| Cumene hydroperoxide                   | 80-15-9     | 1 - 5   |
| Propanediol-1,2                        | 57-55-6     | 1 - 5   |
| Titanium dioxide                       | 13463-67-7  | 0.1 - 1 |
| Cumene                                 | 98-82-8     | 0.1 - 1 |

#### 4. FIRST AID MEASURES

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Move to fresh air. If symptoms develop and persist, get medical attention.   |
| <b>Skin contact:</b> | Wash with soap and water. Remove contaminated clothing and footwear. Wash clothing before reuse. If symptoms develop and persist, get medical attention. |
| <b>Eye contact:</b>  | Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.       |
| <b>Ingestion:</b>    | Do not induce vomiting. Keep individual calm. Get medical attention.   |

#### 5. FIRE FIGHTING MEASURES

|  |  |
|--|--|
| <b>Flash point:</b>                        | > 93.3 °C (> 199.94 °F) Tagliabue closed cup   |
| <b>Autoignition temperature:</b>           | Not available.   |
| <b>Flammable/Explosive limits - lower:</b> | Not available.   |
| <b>Flammable/Explosive limits - upper:</b> | Not available.   |
| <b>Extinguishing media:</b>                | Foam, dry chemical or carbon dioxide.  |
| <b>Special firefighting procedures:</b>    | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. |
| <b>Unusual fire or explosion hazards:</b>  | None   |
| <b>Hazardous combustion products:</b>      | 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.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | 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

|                  |   |
|------------------|---|
| <b>Handling:</b> | Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation.  |
| <b>Storage:</b>  | For safe storage, store at or below 38 °C (100.4 °F)<br>Keep in a cool, well ventilated area away from heat, sparks and open flame.<br>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 |
|--|--|-------------------------------------|----------------------------------|-------|
| Polyglycol dimethacrylate              | None   | None                                | None                             | None  |
| Oleic acid 5.5EO                       | None   | None                                | None                             | None  |
| Saccharin                              | None   | None                                | None                             | None  |
| Silica, amorphous, fumed, crystal-free | 10 mg/m3 TWA<br>Inhalable dust.<br>3 mg/m3 TWA<br>Respirable fraction. | 20 MPPCF TWA<br>0.8 mg/m3 TWA       | None                             | None  |
| Cumene hydroperoxide                   | None   | None                                | 1 ppm (6 mg/m3)<br>TWA<br>(SKIN) | None  |
| Propanediol-1,2                        | None   | None                                | 10 mg/m3 TWA<br>Aerosol.         | None  |
| Titanium dioxide                       | 10 mg/m3 TWA   | 15 mg/m3 TWA<br>Total dust.         | None                             | None  |
| Cumene                                 | 50 ppm TWA   | 50 ppm (245<br>mg/m3) TWA<br>(SKIN) | None                             | None  |

**Engineering controls:**

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

**Respiratory protection:**

Use a NIOSH approved supplied air respirator with an organic cartridge if the potential to exceed established exposure limits exists.

**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

|   |  |
|---|--|
| <b>Physical state:</b>                          | Liquid                                       |
| <b>Color:</b>                                   | Purple                                       |
| <b>Odor:</b>                                    | mild   |
| <b>Odor threshold:</b>                          | Not available.                               |
| <b>pH:</b>                                      | Not applicable                               |
| <b>Vapor pressure:</b>                          | < 5 mm hg (27 °C (80.6 °F))                  |
| <b>Boiling point/range:</b>                     | > 149 °C (> 300.2 °F)                        |
| <b>Melting point/ range:</b>                    | Not available.                               |
| <b>Specific gravity:</b>                        | 1.05   |
| <b>Vapor density:</b>                           | Not available.                               |
| <b>Flash point:</b>                             | > 93.3 °C (> 199.94 °F) Tagliabue closed cup |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.                               |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.                               |
| <b>Autoignition temperature:</b>                | Not available.                               |
| <b>Evaporation rate:</b>                        | Not available.                               |
| <b>Solubility in water:</b>                     | Slight                                       |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.                               |
| <b>VOC content:</b>                             | 0.19 %; 1.79 g/l                             |

## 10. STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>Stability:</b>                        | Stable  |
| <b>Hazardous reactions:</b>              | Will not occur.   |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours. |
| <b>Incompatible materials:</b>           | Strong oxidizing agents.  |
| <b>Conditions to avoid:</b>              | See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).          |

## 11. TOXICOLOGICAL INFORMATION

**Acute oral product toxicity:** LD50 (rat) > 10,000 mg/kg

**Acute dermal product toxicity:** LD50 (rabbit) > 5,000 mg/kg

| Hazardous components                   | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|--|----------------|-----------------|---|
| Polyglycol dimethacrylate              | No             | No              | No  |
| Oleic acid 5.5EO                       | No             | No              | No  |
| Saccharin                              | No             | No              | No  |
| Silica, amorphous, fumed, crystal-free | No             | No              | No  |
| Cumene hydroperoxide                   | No             | No              | No  |
| Propanediol-1,2                        | No             | No              | No  |
| Titanium dioxide                       | No             | Group 2B        | No  |
| Cumene                                 | No             | Group 2B        | No  |

| Hazardous components                   | Health Effects/Target Organs                                   |
|--|--|
| Polyglycol dimethacrylate              | Irritant, Allergen   |
| Oleic acid 5.5EO                       | Irritant   |
| Saccharin                              | No Target Organs   |
| Silica, amorphous, fumed, crystal-free | Nuisance dust  |
| Cumene hydroperoxide                   | Allergen, Central nervous system, Corrosive, Irritant, Mutagen |
| Propanediol-1,2                        | Irritant   |
| Titanium dioxide                       | Irritant, Respiratory, 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

|  |   |
|--|---|
| <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> | None above reporting de minimus   |
| <b>CERCLA/SARA Section 302 EHS:</b>    | None above reporting de minimus   |
| <b>CERCLA/SARA Section 311/312:</b>    | Immediate Health, Delayed Health  |
| <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 birth defects or other reproductive harm. This product contains a chemical known in the State of California to cause cancer.                       |

### Canada Regulatory Information

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

## 16. OTHER INFORMATION

**This material safety data sheet contains changes from the previous version in sections: 3, 8, 11, 15**

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