

**LOCTITE**<sup>®</sup>

Revision Number: 003.1

Issue date: 12/30/2008

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                         |  |                             |  |
|-------------------------|--|-----------------------------|--|
| <b>Product name:</b>    | <b>LOCTITE<sup>®</sup> 222MS<sup>™</sup> THREADLOCKER<br/>LOW STRENGTH</b>             | <b>IDH number:</b>          | 135333   |
| <b>Product use:</b>     | Sealant  | <b>Item number:</b>         | 22221  |
| <b>Company address:</b> | Henkel Canada Corporation<br>2225 Meadowpine Boulevard<br>Mississauga, Ontario L5N 7P2 | <b>Region:</b>              | Canada   |
|                         |  | <b>Contact information:</b> | Telephone: 905.814.6511<br>Emergency telephone: 905.814.6511<br>Internet: www.henkelna.com |

**2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

|                        |        |                            |       |
|------------------------|--------|----------------------------|-------|
| <b>Physical state:</b> | Liquid | <b>WHMIS hazard class:</b> | D.2.B |
| <b>Color:</b>          | Purple |                            |       |
| <b>Odor:</b>           | Mild   |                            |       |

**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.

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   |

**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. |

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**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

**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.

**Special firefighting 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 vapours.

**Sensitivity to Mechanical Impact:** Not available

**Sensitivity to static discharge:** Not available

## 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:** 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:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation.

**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 Canada Customer Service at (905) 814-6511.

## 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.<br>6 mg/m3 TWA | 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  |

**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

|                                       |                             |
|---------------------------------------|-----------------------------|
| <b>Acute oral product toxicity:</b>   | LD50 (rat) > 10,000 mg/kg   |
| <b>Acute dermal product toxicity:</b> | LD50 (rabbit) > 5,000 mg/kg |

Toxicologically synergistic products: Not available

Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.

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

| Hazardous components                   | LD50s and LC50s   | Health Effects/Target Organs                                   |
|--|---|--|
| Polyglycol dimethacrylate              | None  | Irritant, Allergen   |
| Oleic acid 5.5EO                       | None  | Irritant   |
| Saccharin                              | None  | No Target Organs   |
| Silica, amorphous, fumed, crystal-free | None  | Nuisance dust  |
| Cumene hydroperoxide                   | None  | Allergen, Central nervous system, Corrosive, Irritant, Mutagen |
| Propanediol-1,2                        | Oral LD50 (RAT) = 30,000 mg/kg<br>Oral LD50 (rabbit) = 18,000 mg/kg | Irritant   |

## 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.

## 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.

### Canada Transportation of Dangerous Goods - Ground

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

### Canada Regulatory Information

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

### 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.

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR), and the MSDS contains all the information required by the CPR.

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