



Revision Number: 006.1

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**1. PRODUCT AND COMPANY IDENTIFICATION**

|                         |                                                                       |                             |                                                                                                                                                                                                                                                |
|-------------------------|-----------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product name:</b>    | <b>Loctite(R) Anaerobic Gasket Maker 518</b>                          | <b>IDH number:</b>          | 209759                                                                                                                                                                                                                                         |
| <b>Product type:</b>    | Anaerobic Adhesive                                                    | <b>Item number:</b>         | 51817                                                                                                                                                                                                                                          |
| <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> | Gel  | <b>HEALTH:</b>              | *2                 |
| <b>Color:</b>          | Red  | <b>FLAMMABILITY:</b>        | 1                  |
| <b>Odor:</b>           | Mild | <b>PHYSICAL HAZARD:</b>     | 1                  |
|                        |      | <b>Personal Protection:</b> | 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, Lungs, Eyes

**Potential Health Effects**

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| <b>Inhalation:</b>   | May cause irritation to nose and throat.                           |
| <b>Skin contact:</b> | May cause allergic skin reaction. Causes skin irritation.          |
| <b>Eye contact:</b>  | Vapors may irritate eyes. Contact with eyes will cause irritation. |
| <b>Ingestion:</b>    | May cause gastrointestinal tract irritation if swallowed.          |

**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders. Acrylic acid: Respiratory disorders. Lung disease.

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  | %        |
|----------------------------------------|-------------|----------|
| Polyurethane methacrylate resin        | Proprietary | 60 - 100 |
| Polyglycol dimethacrylate              | 25852-47-5  | 5 - 10   |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 5 - 10   |
| Acrylic acid                           | 79-10-7     | 1 - 5    |
| Cumene hydroperoxide                   | 80-15-9     | 1 - 5    |
| Ethylene glycol                        | 107-21-1    | 1 - 5    |
| 1-Acetyl-2-phenylhydrazine             | 114-83-0    | 0.1 - 1  |

#### 4. FIRST AID MEASURES

|                      |                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | If symptoms develop and persist, get medical attention. Move to fresh air.                                                                               |
| <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>    | Keep individual calm. Do not induce vomiting. Get medical attention.                                                                                     |

#### 5. FIRE FIGHTING MEASURES

|                                            |                                                                                              |
|--------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Flash point:</b>                        | > 100.00 °C (> 212°F) None                                                                   |
| <b>Autoignition temperature:</b>           | Not available                                                                                |
| <b>Flammable/Explosive limits - lower:</b> | 2 % (Acrylic Acid)                                                                           |
| <b>Flammable/Explosive limits - upper:</b> | 8 % (Acrylic Acid)                                                                           |
| <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>      | Irritating organic vapours. Oxides of nitrogen. Oxides of sulfur. Oxides of carbon.          |

#### 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>          | 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

|                  |                                                                                                                                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling:</b> | Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.                                                                              |
| <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                             |
|----------------------------------------|------------------------------------------------------------------------|-------------------------------|----------------------------------|-----------------------------------|
| Polyurethane methacrylate resin        | None                                                                   | None                          | None                             | None                              |
| Polyglycol dimethacrylate              | 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                              |
| Acrylic acid                           | 2 ppm TWA<br>(SKIN)                                                    | None                          | None                             | 1 ppm TWA<br>3 ppm STEL<br>(SKIN) |
| Cumene hydroperoxide                   | None                                                                   | None                          | 1 ppm (6 mg/m3)<br>TWA<br>(SKIN) | None                              |
| Ethylene glycol                        | 100 mg/m3 Ceiling<br>Aerosol.                                          | None                          | None                             | None                              |
| 1-Acetyl-2-phenylhydrazine             | None                                                                   | None                          | None                             | None                              |

|                                |                                                                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering controls:</b>   | Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.                                                                                  |
| <b>Respiratory protection:</b> | 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. |
| <b>Eye/face protection:</b>    | Safety goggles or safety glasses with side shields.                                                                                                                            |
| <b>Skin protection:</b>        | 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>                          | Gel                           |
| <b>Color:</b>                                   | Red                           |
| <b>Odor:</b>                                    | Mild                          |
| <b>Odor threshold:</b>                          | Not available                 |
| <b>pH:</b>                                      | Not applicable                |
| <b>Vapor pressure:</b>                          | < 10 mm hg (80 °F (26.7 °C))  |
| <b>Boiling point/range:</b>                     | > 300 °F (> 148.9 °C) None    |
| <b>Melting point/ range:</b>                    | Not available                 |
| <b>Specific gravity:</b>                        | 1.1 at 26.60 °C (79.88 °F)    |
| <b>Vapor density:</b>                           | Not available                 |
| <b>Flash point:</b>                             | > 100.00 °C (> 212°F) None    |
| <b>Flammable/Explosive limits - lower:</b>      | 2 % (Acrylic Acid)            |
| <b>Flammable/Explosive limits - upper:</b>      | 8 % (Acrylic Acid)            |
| <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>                             | < 4 %; 19.44 g/l (calculated) |

## 10. STABILITY AND REACTIVITY

|                                          |                                                                                                                                                                      |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability:</b>                        | Stable                                                                                                                                                               |
| <b>Hazardous reactions:</b>              | Will not occur.                                                                                                                                                      |
| <b>Hazardous decomposition products:</b> | Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours. Phenolics. Oxides of carbon.                                                                       |
| <b>Incompatible materials:</b>           | Iron. Acids and bases. Rust. Reducing agents. Aluminum. Strong oxidizing agents. Free radical initiators. Aldehydes. Oxygen scavengers. Strong alkalis. Zinc. copper |
| <b>Conditions to avoid:</b>              | 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

| Hazardous components                   | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|----------------------------------------|----------------|-----------------|---------------------------------------------|
| Polyurethane methacrylate resin        | No             | No              | No                                          |
| Polyglycol dimethacrylate              | No             | No              | No                                          |
| Silica, amorphous, fumed, crystal-free | No             | No              | No                                          |
| Acrylic acid                           | No             | No              | No                                          |
| Cumene hydroperoxide                   | No             | No              | No                                          |
| Ethylene glycol                        | No             | No              | No                                          |
| 1-Acetyl-2-phenylhydrazine             | No             | No              | No                                          |

| Hazardous components                   | Health Effects/Target Organs                                                                        |
|----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Polyurethane methacrylate resin        | Irritant, Allergen                                                                                  |
| Polyglycol dimethacrylate              | Irritant, Allergen                                                                                  |
| Silica, amorphous, fumed, crystal-free | Nuisance dust                                                                                       |
| Acrylic acid                           | Allergen, Corrosive, Irritant, Kidney, Liver                                                        |
| Cumene hydroperoxide                   | Allergen, Central nervous system, Corrosive, Irritant, Mutagen                                      |
| Ethylene glycol                        | Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic |
| 1-Acetyl-2-phenylhydrazine             | Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity                                  |

## 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>    | Delayed Health, Immediate 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). Acrylic acid (CAS# 79-10-7). Cumene hydroperoxide (CAS# 80-15-9). Ethylene glycol (CAS# 107-21-1). |
| <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/NDL 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: 8

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