

# Material Safety Data Sheet



Revision Number: 003.1

Issue date: 04/02/2010

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                               |                                                             |                     |               |
|-------------------------------|-------------------------------------------------------------|---------------------|---------------|
| <b>Product name:</b>          | <b>246 Threadlocker High Temp/Med Strength Oil Tolerant</b> | <b>IDH number:</b>  | 234174        |
| <b>Product type:</b>          | Anaerobic Sealant                                           | <b>Item number:</b> | 29515         |
|                               |                                                             | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                                 |                     |               |
| Henkel Corporation            | Telephone: 860.571.5100                                     |                     |               |
| One Henkel Way                | Emergency telephone: 860.571.5100                           |                     |               |
| Rocky Hill, Connecticut 06067 | Internet: www.henkelna.com                                  |                     |               |

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

|                        |              |                             |                    |
|------------------------|--------------|-----------------------------|--------------------|
| <b>Physical state:</b> | Liquid       | <b>HMIS:</b>                |                    |
| <b>Color:</b>          | Opaque, Blue | <b>HEALTH:</b>              | *2                 |
| <b>Odor:</b>           | Mild         | <b>FLAMMABILITY:</b>        | 1                  |
|                        |              | <b>PHYSICAL HAZARD:</b>     | 1                  |
|                        |              | <b>Personal Protection:</b> | See MSDS Section 8 |

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

**Relevant routes of exposure:** Skin, Lungs, Eyes

### Potential Health Effects

|                      |                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | May cause respiratory tract irritation.                                                                      |
| <b>Skin contact:</b> | May cause skin irritation with discomfort or rash. Causes skin irritation. May cause allergic skin reaction. |
| <b>Eye contact:</b>  | Contact with eyes will cause irritation.                                                                     |
| <b>Ingestion:</b>    | May be harmful if swallowed.                                                                                 |

**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  | %       |
|------------------------------------------------------------------------------------------------------------------|-------------|---------|
| Silsesquioxanes, 3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl Ph, polymers with silicic acid (H4SiO4) tetra-Et ester | 193486-90-7 | 30 - 60 |
| Hexanedioic acid, polymer with 1,4-butanediol and 1,2-propanediol, dodecanoate                                   | 68186-73-2  | 10 - 30 |
| Hydroxyalkyl methacrylate                                                                                        | 27813-02-1  | 5 - 10  |
| Maleimide resin                                                                                                  | 3006-93-7   | 5 - 10  |
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene)                                                                | 24448-20-2  | 1 - 5   |
| Silica, amorphous, treated                                                                                       | 68909-20-6  | 1 - 5   |
| Cumene hydroperoxide                                                                                             | 80-15-9     | 1 - 5   |
| Saccharin                                                                                                        | 81-07-2     | 1 - 5   |
| 1-Acetyl-2-phenylhydrazine                                                                                       | 114-83-0    | 0.1 - 1 |

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#### 4. FIRST AID MEASURES

|                      |                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | Move to fresh air. If symptoms develop and persist, get medical attention.                                                                               |
| <b>Skin contact:</b> | If symptoms develop and persist, get medical attention. Wash clothing before reuse. Remove contaminated clothing and footwear. Wash with soap and water. |
| <b>Eye contact:</b>  | Get medical attention. Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time.       |
| <b>Ingestion:</b>    | Keep individual calm. Do not induce vomiting. 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>      | Formaldehyde. Irritating organic vapours. Oxides of nitrogen. 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>          | Store in a partly filled, closed container until disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). |

#### 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                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------|-----------------------------------------------|-------------------------|
| Silsesquioxanes, 3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl Ph, polymers with silicic acid (H <sub>4</sub> SiO <sub>4</sub> ) tetra-Et ester | None                                        | None                    | None                                          | None                    |
| Hexanedioic acid, polymer with 1,4-butanediol and 1,2-propanediol, dodecanoate                                                             | None                                        | None                    | None                                          | None                    |
| Hydroxyalkyl methacrylate                                                                                                                  | None                                        | None                    | None                                          | 1 ppm TWA<br>3 ppm STEL |
| Maleimide resin                                                                                                                            | None                                        | None                    | None                                          | None                    |
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene)                                                                                          | None                                        | None                    | None                                          | None                    |
| Silica, amorphous, treated                                                                                                                 | 10 mg/m <sup>3</sup> TWA<br>Inhalable dust. | 6 mg/m <sup>3</sup> TWA | None                                          | None                    |
| Cumene hydroperoxide                                                                                                                       | None                                        | None                    | 1 ppm (6 mg/m <sup>3</sup> )<br>TWA<br>(SKIN) | None                    |
| Saccharin                                                                                                                                  | None                                        | None                    | None                                          | None                    |
| 1-Acetyl-2-phenylhydrazine                                                                                                                 | None                                        | None                    | 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 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:**

Natural rubber gloves. Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves. Butyl rubber gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                 |                                              |
|-------------------------------------------------|----------------------------------------------|
| <b>Physical state:</b>                          | Liquid                                       |
| <b>Color:</b>                                   | Opaque, Blue                                 |
| <b>Odor:</b>                                    | Mild                                         |
| <b>Odor threshold:</b>                          | Not available                                |
| <b>pH:</b>                                      | Not applicable                               |
| <b>Vapor pressure:</b>                          | < 5 mm hg (80 °F (26.7 °C))                  |
| <b>Boiling point/range:</b>                     | > 300 °F (> 148.9 °C)                        |
| <b>Melting point/ range:</b>                    | Not available                                |
| <b>Specific gravity:</b>                        | 1.147                                        |
| <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>                             | 2.11 %; 22 g/l                               |

## 10. STABILITY AND REACTIVITY

|                                          |                                                                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability:</b>                        | Stable                                                                                                                         |
| <b>Hazardous reactions:</b>              | Will not occur.                                                                                                                |
| <b>Hazardous decomposition products:</b> | Irritating organic vapours. Oxides of carbon. Oxides of nitrogen. Formaldehyde.                                                |
| <b>Incompatible materials:</b>           | Free radical initiators. Reducing agents. Strong alkalis. Amines. Peroxides. Azo-compounds. Strong acids and 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) |
|------------------------------------------------------------------------------------------------------------------|----------------|-----------------|---------------------------------------------|
| Silsesquioxanes, 3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl Ph, polymers with silicic acid (H4SiO4) tetra-Et ester | No             | No              | No                                          |
| Hexanedioic acid, polymer with 1,4-butanediol and 1,2-propanediol, dodecanoate                                   | No             | No              | No                                          |
| Hydroxyalkyl methacrylate                                                                                        | No             | No              | No                                          |
| Maleimide resin                                                                                                  | No             | No              | No                                          |
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene)                                                                | No             | No              | No                                          |
| Silica, amorphous, treated                                                                                       | No             | No              | No                                          |
| Cumene hydroperoxide                                                                                             | No             | No              | No                                          |
| Saccharin                                                                                                        | No             | No              | No                                          |
| 1-Acetyl-2-phenylhydrazine                                                                                       | No             | No              | No                                          |

| Hazardous components                                                                                             | Health Effects/Target Organs                                       |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Silsesquioxanes, 3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl Ph, polymers with silicic acid (H4SiO4) tetra-Et ester | Allergen, Irritant                                                 |
| Hexanedioic acid, polymer with 1,4-butanediol and 1,2-propanediol, dodecanoate                                   | No Records                                                         |
| Hydroxyalkyl methacrylate                                                                                        | Irritant, Allergen                                                 |
| Maleimide resin                                                                                                  | No Target Organs                                                   |
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene)                                                                | Irritant, Allergen                                                 |
| Silica, amorphous, treated                                                                                       | No Target Organs                                                   |
| Cumene hydroperoxide                                                                                             | Allergen, Central nervous system, Corrosive, Irritant, Mutagen     |
| Saccharin                                                                                                        | No Target Organs                                                   |
| 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). Cumene hydroperoxide (CAS# 80-15-9). |
| <b>California Proposition 65:</b>      | This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.                       |

**Canada Regulatory Information**

|                             |                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CEPA DSL/NDL Status:</b> | 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. |
| <b>WHMIS hazard class:</b>  | 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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