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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|                         |  |                             |   |
|-------------------------|--|-----------------------------|---|
| <b>Product name:</b>    | Loctite(R) Superflex(R) Non-Corrosive RTV Clear Silicone Adhesive Sealant        | <b>Item No. :</b>           | 51387 / IDH No. 234323  |
| <b>Product type:</b>    | Silicone   | <b>Region:</b>              | United States   |
| <b>Company address:</b> | Henkel Corporation<br>1001 Trout Brook Crossing<br>Rocky Hill, Connecticut 06067 | <b>Contact Information:</b> | Telephone: 860.571.5100<br>Emergency telephone: 860.571.5100<br>Internet: www.loctite.com |

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Hazardous components</u>                                  | <u>%</u> | <u>ACGIH TLV</u>   | <u>OSHA PEL</u>         | <u>OTHER</u> |
|--|----------|--|-------------------------|--------------|
| Silicone Resin<br>Proprietary                                | 30-60    | None   | None                    | None         |
| Silane derivative<br>Proprietary                             | 10-30    | None   | None                    | None         |
| Silica, amorphous, fumed,<br>crystalline-free<br>112945-52-5 | 10-30    | 10 mg/m <sup>3</sup> TWA inhalable<br>3 mg/m <sup>3</sup> TWA respirable | 6 mg/m <sup>3</sup> TWA | None         |
| Oximino silane<br>Proprietary                                | 10-30    | None   | None                    | None         |

Exposure to moisture during cure will release ammonia. Exposure to moisture during cure will release 1-2% methyl alcohol.

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**Physical state:** Paste  
**Color:** Translucent  
**Odor:** Slight, Alcoholic

#### HMIS:

**HEALTH:** 2\*  
**FLAMMABILITY:** 1  
**PHYSICAL HAZARD:** 0  
**Personal Protection:** See Section 8

**WARNING:** MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.  
MAY CAUSE ALLERGIC SKIN REACTION.

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

### Potential Health Effects

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Inhalation of vapors from uncured sealant may cause respiratory tract irritation. Vapor overexposure may cause drowsiness. When heated to temperatures exceeding 300° F (150° C) in the presence of air, silicones may form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat. Safe handling conditions may be maintained by keeping formaldehyde vapor concentrations below the OSHA permissible limit. |
| <b>Skin contact:</b> | May cause moderate skin irritation. May be harmful if absorbed through skin. Repeated or prolonged skin contact may result in allergic sensitization.  |
| <b>Eye contact:</b>  | Contact with uncured product may irritate the eyes.  |
| <b>Ingestion:</b>    | Not expected under normal conditions of use. May be harmful if swallowed.  |

Item No. : 51387 / IDH No. 234323

**Product name:** Loctite(R) Superflex(R) Non-Corrosive RTV Clear Silicone Adhesive Sealant

**Existing conditions aggravated by exposure:**

Other pre-existing skin conditions. Other respiratory disorders (bronchitis, emphysema, bronchial hyperreactivity).

**See Section 11 for additional toxicological information.**

#### 4. FIRST AID MEASURES

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Remove to fresh air. If discomfort persists seek medical attention.  |
| <b>Skin contact:</b> | Wipe off paste with paper towel or cloth. Wash with soap and water. Get medical attention if symptoms develop and persist. |
| <b>Eye contact:</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.     |
| <b>Ingestion:</b>    | Do not induce vomiting. If conscious, drink plenty of water. Obtain medical attention.                                     |

#### 5. FIRE-FIGHTING MEASURES

|  |  |
|--|--|
| <b>Flash point:</b>                        | Does not flash.  |
| <b>Autoignition temperature:</b>           | Not applicable   |
| <b>Flammable/Explosive limits-lower %:</b> | Not applicable   |
| <b>Flammable/Explosive limits-upper %:</b> | Not applicable   |
| <b>Extinguishing media:</b>                | Use extinguishing measures appropriate to local circumstances and the surrounding environment. |
| <b>Special fire fighting 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 nitrogen, irritating organic vapors. Formaldehyde.                 |

#### 6. ACCIDENTAL RELEASE MEASURES

|                                   |  |
|-----------------------------------|--|
| <b>Environmental precautions:</b> | Do not allow material to contaminate ground water system.  |
| <b>Clean-up methods:</b>          | Scrape up as much material as possible. Clean residue with soap and water. Wear suitable protective clothing, gloves and eye/face protection. Spilled material will solidify. Store in a partly filled, closed container until disposal. |

#### 7. HANDLING AND STORAGE

|                               |  |
|-------------------------------|--|
| <b>Handling:</b>              | Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Use only in area provided with appropriate exhaust ventilation. Do not wear contact lenses. Keep out of the reach of children. |
| <b>Storage:</b>               | Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.   |
| <b>Incompatible products:</b> | Keep away from strong oxidizing agents, strong Lewis or mineral acids. Avoid contact with water.   |

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                |   |
|--------------------------------|---|
| <b>Engineering controls:</b>   | Ensure adequate ventilation, especially in confined areas.  |
| <b>Respiratory protection:</b> | Use a NIOSH approved supplied air respirator if the potential to exceed established exposure limits exists. |
| <b>Skin protection:</b>        | Use impermeable gloves and protective clothing as necessary to prevent skin contact.                        |

**Item No. :** 51387 / IDH No. 234323

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**Eye/face protection:**

Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |   |
|---|---|
| <b>Physical state:</b>                          | Paste                                       |
| <b>Color:</b>                                   | Translucent                                 |
| <b>Odor:</b>                                    | Slight, Alcoholic                           |
| <b>Vapor pressure:</b>                          | Not available                               |
| <b>pH:</b>                                      | Not applicable                              |
| <b>Boiling point/range:</b>                     | Greater than 149°C (300°F)                  |
| <b>Melting point/range:</b>                     | Not applicable                              |
| <b>Specific gravity:</b>                        | 1.0399                                      |
| <b>Vapor density:</b>                           | Not available                               |
| <b>Evaporation rate:</b>                        | Not applicable                              |
| <b>Solubility in water:</b>                     | Insoluble. Polymerizes in presence of water |
| <b>Partition coefficient (n-octanol/water):</b> | Not available                               |
| <b>VOC content:</b>                             | 20%; 208 grams/liter (estimated)            |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable.  |
| <b>Hazardous polymerization:</b>         | Will not occur.  |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Oxides of nitrogen. Formaldehyde. Ammonia. Methanol is liberated slowly upon exposure to moisture. |
| <b>Incompatibility:</b>                  | Polymerizes on contact with water.   |
| <b>Conditions to avoid:</b>              | Contamination with water.  |

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

| Hazardous components   | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen |
|--|----------------|-----------------|-----------------|
| Silicone Resin<br>Proprietary                                | No             | No              | No              |
| Silane derivative<br>Proprietary                             | No             | No              | No              |
| Silica, amorphous, fumed,<br>crystalline-free<br>112945-52-5 | No             | No              | No              |
| Oximino silane<br>Proprietary                                | No             | No              | No              |

### Literature Referenced Target Organ & Other Health Effects

| Hazardous components   | Health Effects/Target Organs |
|--|------------------------------|
| Silicone Resin<br>Proprietary                                | Irritant                     |
| Silane derivative<br>Proprietary                             | Irritant, Allergen           |
| Silica, amorphous, fumed,<br>crystalline-free<br>112945-52-5 | Nuisance dust                |
| Oximino silane<br>Proprietary                                | Allergen, Irritant           |

## 12. ECOLOGICAL INFORMATION

### Ecological information:

No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, groundwater, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose of in accordance with Federal, State and local regulations.

**EPA hazardous waste number:** Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

### 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          |
| Marine pollutant:         | None known    |

## 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.   |

|                                     |  |
|-------------------------------------|--|
| <b>CERCLA/SARA Section 302 EHS:</b> | None above reporting de minimus.               |
| <b>CERCLA/SARA Section 311/312:</b> | Immediate Health Hazard, Delayed Health Hazard |
| <b>CERCLA/SARA 313:</b>             | None above reporting de minimus.               |

**California Proposition 65:** No California Proposition 65 listed chemicals are known to be present.

### Canada Regulatory Information

|                              |  |
|------------------------------|--|
| <b>CEPA DSL/NDSL Status:</b> | All components are listed on or are exempt from listing on the 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: 2,3,8,15

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