



Revision Number: 009.2

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## 1. IDENTIFICATION

**Product name:** LOCTITE SI 5140 known as Loctite(R) 5140 RTV Silicone P  
**Product type/Recommended use:** Silicone sealant  
**Restriction of Use:** None identified  
**Company address:** Henkel Corporation  
 One Henkel Way  
 Rocky Hill, Connecticut 06067

**IDH number:** 135263  
**Item number:** 18117  
**Region:** United States  
**Contact information:**  
 Telephone: +1 (860) 571-5100  
 MEDICAL EMERGENCY Phone: Poison Control Center  
 1-877-671-4608 (toll free) or 1-303-592-1711  
 TRANSPORT EMERGENCY Phone: CHEMTREC  
 1-800-424-9300 (toll free) or 1-703-527-3887  
 MEDICAL EMERGENCY Phone: Poison Control Center  
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 TRANSPORT EMERGENCY Phone: CHEMTREC  
 1-800-424-9300 (toll free) or 1-703-527-3887  
 Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**WARNING:** H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.  
 H319 - CAUSES SERIOUS EYE IRRITATION.

| HAZARD CLASS       | HAZARD CATEGORY |
|--------------------|-----------------|
| EYE IRRITATION     | 2A              |
| SKIN SENSITIZATION | 1               |

### PICTOGRAM(S)



### Precautionary Statements

**Prevention:** P261 - Avoid breathing mist/vapours.  
 P264 - Wash affected area thoroughly after handling.  
 P272 - Contaminated work clothing should not be allowed out of the workplace.  
**Response:** P280 - Wear protective gloves, eye protection, and face protection.  
 P302+P352 - IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 - If skin irritation or rash occurs: Get medical attention.  
 P337+P313 - If eye irritation persists: Get medical attention.  
 P362+P364 - Take off contaminated clothing and wash it before reuse.  
**Storage:** Not prescribed  
**Disposal:** P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

**Other hazards** Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s)   | CAS Number | Weight %* |
|--|------------|-----------|
| Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica | 68909-20-6 | 10 - 30   |
| Trimethoxy(methyl)silane   | 1185-55-3  | 5 - 10    |
| Methanol   | 67-56-1    | 0.1 - 1   |

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

#### First Aid Measures by likely routes of exposure

|  |   |
|--|---|
| <b>Inhalation:</b>   | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention. |
| <b>Skin contact:</b>   | Wipe off paste with paper towel or cloth. Wash with soap and water. If skin irritation persists, call a physician.  |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  |
| <b>Ingestion:</b>  | Do not induce vomiting. Get medical attention.  |
| <b>Most important symptoms and effects (acute and delayed):</b>                  | The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.                                    |
| <b>Indication of any immediate medical attention / special treatment needed:</b> | Not available.  |

### 5. FIRE FIGHTING MEASURES

|   |   |
|---|---|
| <b>Extinguishing media:</b>               | Foam, dry chemical or carbon dioxide. Do not use high volume water jet.   |
| <b>Improper extinguishing agents:</b>     | Not available.  |
| <b>Special firefighting procedures:</b>   | Prevent inhalation of fumes and gases. Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. |
| <b>Unusual fire or explosion hazards:</b> | In case of fire, keep containers cool with water spray.   |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Oxides of silicon. Formaldehyde. Irritating vapors.   |

### 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 material to contaminate ground water system.   |
| <b>Clean-up methods:</b>          | Maintain good ventilation for large spills. Scrape up as much material as possible. Place scrap material in a well ventilated area and allow to cure to rubber. |

## 7. HANDLING AND STORAGE

**Handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

**Storage:** For safe storage, store between 8.0 °C (46.4 °F) and 28.0 °C (82.4 °F). Store in a dry area below 90° F.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 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 Component(s) | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|------------------------|-----------|----------|-----------|-------|
| None                   | None      | None     | None      | None  |

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below 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. Full face protection should be used if the potential for splashing or spraying of product exists.

**Skin protection:** Use impermeable gloves and protective clothing as necessary to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |  |
|---|--|
| <b>Physical state:</b>  | Viscous, Translucent                                   |
| <b>Color:</b>   | Off white  |
| <b>Odor:</b>  | no valuation   |
| <b>Odor threshold:</b>  | Not available.   |
| <b>pH:</b>  | Not applicable, Product is non-soluble (in water).     |
| <b>Vapor pressure:</b>  | < 10 mm hg (21.1 °C (70°F)) < 10 mm hg (20 °C (68°F))  |
| <b>Boiling point/range:</b>                                       | Not applicable, Not determined                         |
| <b>Melting point/ range:</b>                                      | Not applicable, Product is a liquid                    |
| <b>Density/Relative density:</b>                                  | 1.1 at 20 °C (68°F)                                    |
| <b>Relative vapor density:</b>                                    | 20 °C Heavier than air                                 |
| <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 applicable   |
| <b>Flammability:</b>  | The product is not flammable.                          |
| <b>Evaporation rate:</b>  | Not available.   |
| <b>Solubility:</b>  | Polymerises in presence of water. Water Not applicable |
| <b>Partition coefficient n-octanol/water (logarithmic value):</b> | Not available.   |
| <b>VOC content:</b>   | 0.38 %   |
| <b>Dynamic viscosity:</b>   | Not available.   |
| <b>Kinematic viscosity:</b>                                       | > 20.5 mm <sup>2</sup> /s                              |
| <b>Particle characteristics:</b>                                  | Not applicable, Product is a liquid                    |
| <b>Decomposition temperature:</b>                                 | Not available.   |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable under normal conditions of storage and use.   |
| <b>Hazardous reactions:</b>              | None under normal processing.  |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Oxides of silicon. Irritating vapors. Formaldehyde. Contact with water liberates methanol. |
| <b>Incompatible materials:</b>           | Acids. Bases. Oxidizing agents. Heat, sunlight, or UV light. Water. Alkaline earth metals.                   |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | Product is sensitive to light and moisture.  |

## 11. TOXICOLOGICAL INFORMATION

**Likely routes of exposure:** Skin, Inhalation, Eyes, Ingestion

### Potential Health Effects/Symptoms

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Inhalation of vapors from uncured sealant may cause respiratory tract irritation. Overexposure to methanol formed during cure may cause drowsiness, nausea, and vomiting. 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 allergic skin reaction. May cause skin irritation.  |
| <b>Eye contact:</b>  | Causes serious eye irritation.  |
| <b>Ingestion:</b>    | Not expected under normal conditions of use. May cause gastrointestinal tract irritation if swallowed.  |

| Hazardous Component(s)   | LD50s and LC50s   |
|--|---|
| Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica | None  |
| Trimethoxy(methyl)silane   | Inhalation LC50 (Rat, 4 h) = > 26000 ppm  |
| Methanol   | Oral LD50 (Rat) = 5,628 mg/kg<br>Oral LD50 (Mouse) = 7,300 mg/kg<br>Oral LD50 (Rabbit) = 14.4 g/kg<br>Dermal LD50 (Rabbit) = 15,800 mg/kg |

| Hazardous Component(s)   | Immediate Health Effects | Delayed Health Effects | Chronic Health Effects              |
|--|--------------------------|------------------------|-------------------------------------|
| Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica |                          |                        |                                     |
| Trimethoxy(methyl)silane   | Irritant                 | Allergen               |                                     |
| Methanol   | Irritant                 |                        | Eyes<br>Metabolic<br>Nervous System |

| Hazardous Component(s)   | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|--|
| Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica | No             | No              | No                                       |
| Trimethoxy(methyl)silane   | No             | No              | No                                       |
| Methanol   | No             | No              | No                                       |

## 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 transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

#### U.S. Department of Transportation Ground (49 CFR)

|                                  |               |
|----------------------------------|---------------|
| <b>Proper shipping name:</b>     | Not regulated |
| <b>Hazard class or division:</b> | None          |
| <b>Identification number:</b>    | None          |
| <b>Packing group:</b>            | None          |

#### International Air Transportation (ICAO/IATA)

|                                  |               |
|----------------------------------|---------------|
| <b>Proper shipping name:</b>     | Not regulated |
| <b>Hazard class or division:</b> | None          |
| <b>Identification number:</b>    | None          |
| <b>Packing group:</b>            | None          |

#### Water Transportation (IMO/IMDG)

|                                  |               |
|----------------------------------|---------------|
| <b>Proper shipping name:</b>     | Not regulated |
| <b>Hazard class or division:</b> | None          |
| <b>Identification number:</b>    | None          |
| <b>Packing group:</b>            | None          |

**Exceptions:** None

### 15. REGULATORY INFORMATION

#### United States Regulatory Information

**TSCA 8 (b) Inventory Status:** All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

**TSCA 12 (b) Export Notification:** None above reporting de minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.

**CERCLA/SARA Section 311/312:** Please refer to the GHS classification in Section 2

**CERCLA/SARA Section 313:** None above reporting de minimis.

**California Proposition 65:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

#### Canada Regulatory Information

**CEPA DSL/NDSL Status:** Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 9

**Prepared by:** Product Safety and Regulatory Affairs

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