



Revision Number: 008.0

Issue date: 09/17/2025

**1. IDENTIFICATION**

|                                      |  |                     |        |
|--------------------------------------|--|---------------------|--------|
| <b>Product name:</b>                 | <b>LOCTITE SI 593 BK known as RTV Black Silicone Gasket Make</b> | <b>IDH number:</b>  | 545505 |
| <b>Product type/Recommended use:</b> | Silicone   | <b>Item number:</b> | 38642  |
| <b>Restriction of Use:</b>           | None identified  | <b>Region:</b>      | Canada |
| <b>Company address:</b>              | <b>Contact information:</b>                                      |                     |        |
| Henkel Canada Corporation            | Telephone: +1 (905) 814-6511                                     |                     |        |
| Meadowpine Boulevard 2515            | MEDICAL EMERGENCY Phone: Poison Control Center                   |                     |        |
| Mississauga, Ontario L5N 6C3         | 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                   |                     |        |
|                                      | 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                     |                     |        |
|                                      | Internet: www.henkelna.com                                       |                     |        |

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**WARNING:** H315 - CAUSES SKIN IRRITATION.  
H319 - CAUSES SERIOUS EYE IRRITATION.

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

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | P264 - Wash affected area thoroughly after handling.<br>P280 - Wear protective gloves, eye protection, and face protection.  |
| <b>Response:</b>   | P302+P352 - IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P332+P313 - If skin irritation occurs: Get medical attention.<br>P337+P313 - If eye irritation persists: Get medical attention.<br>P362+P364 - Take off contaminated clothing and wash it before reuse. |
| <b>Storage:</b>    | Not prescribed   |
| <b>Disposal:</b>   | Not prescribed   |

**Other hazards** Not available.

Classification complies with Canadian Hazardous Products Regulations and is consistent with the provision 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 %* |
|------------------------|------------|-----------|
| Carbon black - Nano    | 1333-86-4  | 1 - 5     |
| Cyclosiloxanes, di-Me  | 69430-24-6 | 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 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. If adverse health effects develop seek medical attention. |
| <b>Ingestion:</b>  | Do not induce vomiting. In case of adverse health effects seek medical advice.   |
| <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.  |
| <b>Improper extinguishing agents:</b>     | Not available.   |
| <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> | Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.    |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Oxides of silicon. Formaldehyde Acrid smoke and fumes.                     |

### 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. Spilled material will solidify. Scrape up as much material as possible. Maintain good ventilation for large spills. |

## 7. HANDLING AND STORAGE

**Handling:** Do not get in eyes. Avoid contact with eyes, skin and clothing. Do not get on skin or clothing. Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and cause eye irritation.

**Storage:** Not available.

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                            |
|------------------------|---|--|-----------|----------------------------------|
| Silicon dioxide        | 6 mg/m3 TWA<br>3 mg/m3 TWA Respirable particles.<br>10 mg/m3 TWA Inhalable particles. | 15 MPPCF TWA Respirable fraction.<br>50 MPPCF TWA Total dust.<br>15 mg/m3 TWA Total dust.<br>5 mg/m3 TWA Respirable fraction.<br>20 MPPCF TWA<br>0.8 mg/m3 TWA | None      | 3 mg/m3 TWA Respirable fraction. |
| Carbon black - Nano    | 3 mg/m3 TWA Inhalable fraction.   | 3.5 mg/m3 PEL<br>5 mg/m3 TWA Respirable fraction.<br>50 MPPCF TWA Total dust.<br>15 MPPCF TWA Respirable fraction.<br>15 mg/m3 TWA Total dust.                 | None      | None                             |

**Engineering controls:** Ensure adequate ventilation, especially in confined areas.

**Respiratory protection:** No personal respiratory protective equipment normally required. 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:** Use impermeable gloves and protective clothing as necessary to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |                           |
|--|---------------------------|
| <b>Physical state:</b>                     | Paste                     |
| <b>Color:</b>                              | Black                     |
| <b>Odor:</b>                               | Acetic acid               |
| <b>Odor threshold:</b>                     | Not available.            |
| <b>pH:</b>                                 | Not determined            |
| <b>Vapor pressure:</b>                     | < 10 mm hg (20 °C (68°F)) |
| <b>Boiling point/range:</b>                | Not available.            |
| <b>Melting point/ range:</b>               | Not available.            |
| <b>Density/Relative density:</b>           | 1.01 at 20 °C (68°F)      |
| <b>Relative vapor density:</b>             | Heavier than air.         |
| <b>Flash point:</b>                        | > 93 °C (> 199.4 °F)      |
| <b>Flammable/Explosive limits - lower:</b> | 4 % (acetic acid)         |
| <b>Flammable/Explosive limits - upper:</b> | 19.9 % (acetic acid)      |
| <b>Autoignition temperature:</b>           | Not available.            |
| <b>Flammability:</b>                       | Not applicable            |

**Evaporation rate:** Not available.  
**Solubility:** Not soluble. Polymerizes in presence of water. Water  
**Partition coefficient n-octanol/water (logarithmic value):** Not available.  
**VOC content:** < 3 %; 30 g/l  
**Dynamic viscosity:** Not available.  
**Kinematic viscosity:** Not available.  
**Particle characteristics:** Not available.  
**Decomposition temperature:** Not available.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions.  
**Hazardous reactions:** None under normal processing.  
**Hazardous decomposition products:** Acetic acid is liberated slowly upon contact with moisture. Oxides of carbon. Oxides of silicon. Formaldehyde Irritating vapors.  
**Incompatible materials:** Bases. Acids. Oxidizing agents. Water  
**Reactivity:** Not available.  
**Conditions to avoid:** Exposure to moisture. Prolonged heating at temperatures above 150 °C.

## 11. TOXICOLOGICAL INFORMATION

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

### Potential Health Effects/Symptoms

**Inhalation:** 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. Acetic acid produced during cure may irritate eyes, nose and throat.  
**Skin contact:** Causes skin irritation.  
**Eye contact:** Causes serious eye irritation.  
**Ingestion:** Not expected under normal conditions of use. May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s) | LD50s and LC50s                 |
|------------------------|---------------------------------|
| Carbon black - Nano    | Oral LD50 (Rat) = > 8,000 mg/kg |
| Cyclosiloxanes, di-Me  | None                            |

| Hazardous Component(s) | Immediate Health Effects | Delayed Health Effects | Chronic Health Effects |
|------------------------|--------------------------|------------------------|------------------------|
| Carbon black - Nano    |                          |                        |                        |
| Cyclosiloxanes, di-Me  | Irritant                 |                        |                        |

| Hazardous Component(s) | NTP Carcinogen                | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|-------------------------------|-----------------|--|
| Carbon black - Nano    | Known To Be Human Carcinogen. | Group 2B        | No                                       |
| Cyclosiloxanes, di-Me  | 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. Cured rubber can be incinerated or landfilled following EPA and local regulations.

## 14. TRANSPORT INFORMATION

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

### Canada Transportation of Dangerous Goods - Ground

|                                  |               |
|----------------------------------|---------------|
| <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          |

## 15. REGULATORY INFORMATION

### Canada Regulatory Information

**CEPA DSL/NDL 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 as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 3

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