



Revision Number: 007.1

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**1. IDENTIFICATION**

**Product name:** LOCTITE SI 5699 RTV GREY SILICONE known as RTV 5699(TM) Grey Silicone Hig  
**IDH number:** 545491  
**Product type/Recommended use:** Silicone sealant  
**Item number:** 38633  
**Restriction of Use:** None identified  
**Region:** Canada  
**Company address:** Henkel Canada Corporation  
 Meadowpine Boulevard 2515  
 Mississauga, Ontario L5N 6C3  
**Contact information:**  
 Telephone: +1 (905) 814-6511  
 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  
 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**

**DANGER:** H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.  
 H319 - CAUSES SERIOUS EYE IRRITATION.  
 H350 - MAY CAUSE CANCER.  
 H373 - MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
EYE IRRITATION	2A
SKIN SENSITIZATION	1
CARCINOGENICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2

**PICTOGRAM(S)**



**Precautionary Statements**

**Prevention:** P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P260 - Do not breathe dust.  
 P264 - Wash affected area thoroughly after handling.  
 P272 - Contaminated work clothing should not be allowed out of the workplace.  
**Response:** P280 - Wear protective gloves, clothing, eye 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

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**Storage:**  
**Disposal:**

contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - IF exposed or concerned: Get medical attention.  
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.  
P405 - Store locked up.  
P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

**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 %*
Calcium carbonate	471-34-1	10 - 30
Butan-2-one O,O',O"- (vinylsilyldiyl)trioxime	2224-33-1	1 - 5
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica	68909-20-6	1 - 5
2-butanone oxime	96-29-7	1 - 5
Quartz (SiO <sub>2</sub> ), <1% respirable	14808-60-7	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. Get 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. Prevent inhalation of fumes and gases.
<b>Unusual fire or explosion hazards:</b>	None

**Hazardous combustion products:** Oxides of carbon. Oxides of silicon. Formaldehyde Irritating organic vapours.

## 6. ACCIDENTAL RELEASE MEASURES

**Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.**

**Environmental precautions:** Do not allow material to contaminate ground water system.

**Clean-up methods:** Scrape up as much material as possible. Maintain good ventilation for large spills. 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. Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and cause eye irritation.

**Storage:** Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

**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
Calcium carbonate	3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles.	15 mg/m3 PEL Total dust. 5 mg/m3 PEL Respirable fraction. 15 mg/m3 TWA Total dust. 50 MPPCF TWA Total dust. 15 MPPCF TWA Respirable fraction. 5 mg/m3 TWA Respirable fraction. 15 mg/m3 PEL Total dust. 5 mg/m3 PEL Respirable fraction.	None	None
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	3 mg/m3 TWA Respirable fraction. 10 mg/m3 TWA Inhalable dust.	6 mg/m3 TWA	None	None

2-butanone oxime	None	None	10 ppm (36 mg/m3) TWA (Skin sensitizer.)	None
Quartz (SiO2), <1% respirable	0.025 mg/m3 TWA Respirable fraction.	0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust. 2.4 MPPCF TWA Respirable 0.1 mg/m3 TWA Respirable	None	None

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

**Respiratory protection:** Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

**Eye/face protection:** Safety goggles or safety glasses with side shields. Safety showers and eye wash stations should be available.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Paste

**Color:** Gray / Grey

**Odor:** Mild

**Odor threshold:** Not available.

**pH:** Not applicable, Product is non-soluble (in water).

**Vapor pressure:** < 5 mm hg (50 °C (122°F)) < 666.6 Pa < 700 mbar (50 °C (122°F)) no method / method unknown

**Boiling point/range:** > 200 °C (> 392°F)

**Melting point/ range:** Not applicable, Determination technically not possible

**Density/Relative density:** 1.5 at 20 °C (68°F)

**Relative vapor density:** 20 °C Heavier than air.

**Flash point:** > 93 °C (> 199.4 °F)

**Flammable/Explosive limits - lower:** Not available.

**Flammable/Explosive limits - upper:** Not available.

**Autoignition temperature:** Not available.

**Flammability:** Not applicable

**Evaporation rate:** Not available.

**Solubility:** Insoluble Water

**Partition coefficient n-octanol/water (logarithmic value):** Not available.

**VOC content:** 0.54 %

**Dynamic viscosity:** Not available.

**Kinematic viscosity:** Not available.

**Particle characteristics:** Not applicable, mixture is a paste.

**Decomposition temperature:** 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 silicon. Oxides of carbon. Methyl ethyl ketoxime formed during cure. Formaldehyde Irritating fumes.
<b>Incompatible materials:</b>	Acids and bases. Oxidizing agents. Polymerizes on contact with water.
<b>Reactivity:</b>	Not available.
<b>Conditions to avoid:</b>	Excessive heat. Store away from incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

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

**Potential Health Effects/Symptoms**

**Inhalation:** May cause respiratory tract irritation. 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.

**Skin contact:** May cause allergic skin reaction. May cause 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
Calcium carbonate	Oral LD50 (Rat) = 6,450 mg/kg Oral LD50 (Mouse) = 6,450 mg/kg Inhalation LC50 (Rat, 4 h) = > 3 mg/l
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	None
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	None
2-butanone oxime	Inhalation LC50 (Rat, 4 h) = > 4.83 mg/l
Quartz (SiO2), <1% respirable	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Calcium carbonate	Nuisance dust		
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	Irritant	Allergen	
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica			
2-butanone oxime	Irritant	Allergen	Blood Central nervous system Eyes Some evidence of carcinogenicity
Quartz (SiO2), <1% respirable			Immune system Lung Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Calcium carbonate	No	No	No
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	No	No	No
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	No	No	No
2-butanone oxime	No	No	No
Quartz (SiO2), <1% respirable	Known To Be Human Carcinogen.	Group 1	Yes

**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

<b>Exceptions:</b>	None
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## 15. REGULATORY INFORMATION

### 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.

### 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: 2,3,8,9,11,15

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

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