



Revision Number: 002.1

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1. PRODUCT AND COMPANY IDENTIFICATION

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|-------------------------|--|-----------------------------|--|
| Product name: | Loctite(R) 5699 Grey High Performance RTV Silicone Gasket Maker | IDH number: | 135275 |
| Product type: | Silicone | Item number: | 18718 |
| Company address: | Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067 | Region: | United States |
| | | Contact information: | Telephone: 860.571.5100 Emergency telephone: 860.571.5100 Internet: www.henkelna.com |

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

| | | | |
|------------------------|-------|-----------------------------|--------------------|
| Physical state: | Paste | HMIS: | |
| Color: | Gray | HEALTH: | *2 |
| Odor: | Mild | FLAMMABILITY: | 1 |
| | | PHYSICAL HAZARD: | 0 |
| | | Personal Protection: | See MSDS Section 8 |

WARNING: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system. 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. The silane is a skin and eye irritant and prolonged contact may cause eye and skin burns. The low concentration makes such overexposure unlikely and minimizes its affect on health and safety.

Skin contact: Prolonged or repeated contact may cause irritation. Repeated or prolonged skin contact may result in allergic sensitization.

Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation. Prolonged or repeated contact may worsen irritation.

Ingestion: Contains material that may be slightly toxic. Not expected under normal conditions of use.

Existing conditions aggravated by exposure:

Skin 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 | % |
|--|------------|---------|
| Siloxanes and Silicones, di-Me, hydroxy-terminated | 70131-67-8 | 30 - 60 |
| Calcium carbonate | 471-34-1 | 10 - 30 |
| Garnet-group minerals | 12178-41-5 | 10 - 30 |
| Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime | 2224-33-1 | 5 - 10 |
| Silica, amorphous, treated | 68909-20-6 | 1 - 5 |
| Butanone oxime | 96-29-7 | 1 - 5 |
| Aluminum | 7429-90-5 | 0.1 - 1 |

4. FIRST AID MEASURES

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| Inhalation: | Move to fresh air. If symptoms persist, seek medical advice. |
| Skin contact: | Wash with soap and water. Wipe off paste with paper towel or cloth. |
| Eye contact: | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. |
| Ingestion: | Keep individual calm. Do not induce vomiting. Get medical attention. |

5. FIRE FIGHTING MEASURES

| | |
|--|--|
| Flash point: | > 93 °C (> 199.4 °F) |
| Autoignition temperature: | Not available |
| Flammable/Explosive limits - lower: | Not applicable |
| Flammable/Explosive limits - upper: | Not applicable |
| Extinguishing media: | Dry chemical. Carbon dioxide. Foam. |
| Special firefighting procedures: | Wear self contained breathing apparatus. |
| Unusual fire or explosion hazards: | None |
| Hazardous combustion products: | Oxides of carbon. Oxides of silicon. Formaldehyde. |

6. ACCIDENTAL RELEASE MEASURES

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

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| Environmental precautions: | Do not allow product to enter sewer or waterways. |
| Clean-up methods: | Scrape up as much material as possible. Maintain good ventilation for large spills. Store in a partly filled, closed container until disposal. |

7. HANDLING AND STORAGE

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| 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 container closed. Store in a dry area below 90° F. |

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 |
|--|-------------------------------------|---|---|-------|
| Siloxanes and Silicones, di-Me, hydroxy-terminated | None | None | None | None |
| Calcium carbonate | 10 mg/m3 TWA Total dust. | 5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. | None | None |
| Garnet-group minerals | None | None | None | None |
| Butan-2-one O,O',O''-(vinylsilyldiene)trioxime | None | None | None | None |
| Silica, amorphous, treated | 10 mg/m3 TWA Inhalable dust. | 6 mg/m3 TWA | None | None |
| Butanone oxime | None | None | 10 ppm (36 mg/m3) TWA (Skin sensitizer) | None |
| Aluminum | 1 mg/m3 TWA Respirable fraction. | 15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable dust. | 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.

Skin protection:

Nitrile gloves. Use impermeable gloves and protective clothing as necessary to prevent skin contact. Recommend using

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|-----------------------------------|
| Physical state: | Paste |
| Color: | Gray |
| Odor: | Mild |
| Odor threshold: | Not available |
| pH: | Not applicable |
| Vapor pressure: | < 5 mm hg |
| Boiling point/range: | Not applicable |
| Melting point/ range: | Not available |
| Specific gravity: | 1.5 at 20 °C (68°F) |
| Vapor density: | Heavier than air. |
| Flash point: | > 93 °C (> 199.4 °F) |
| Flammable/Explosive limits - lower: | Not applicable |
| Flammable/Explosive limits - upper: | Not applicable |
| Autoignition temperature: | Not available |
| Evaporation rate: | Not available |
| Solubility in water: | Polymerises in presence of water. |
| Partition coefficient (n-octanol/water): | Not available |
| VOC content: | 3.31 %; 49.65 g/l |

10. STABILITY AND REACTIVITY

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| Stability: | Stable |
| Hazardous reactions: | Will not occur. |
| Hazardous decomposition products: | Oxides of silicon. Oxides of carbon. Methyl ethyl ketoxime formed during cure. Formaldehyde. |
| Incompatible materials: | Acids and bases. Oxidizing agents. Polymerizes on contact with water. |
| Conditions to avoid: | Avoid contact with acids and oxidizing agents. High temperatures. Moisture. |

11. TOXICOLOGICAL INFORMATION

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|---|
| Siloxanes and Silicones, di-Me, hydroxy-terminated | No | No | No |
| Calcium carbonate | No | No | No |
| Garnet-group minerals | No | No | No |
| Butan-2-one O,O',O''-(vinylsilyldiene)trioxime | No | No | No |
| Silica, amorphous, treated | No | No | No |
| Butanone oxime | No | No | No |
| Aluminum | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|--|---|
| Siloxanes and Silicones, di-Me, hydroxy-terminated | No Target Organs |
| Calcium carbonate | Nuisance dust |
| Garnet-group minerals | No Records |
| Butan-2-one O,O',O''-(vinylsilyldiene)trioxime | Irritant, Allergen |
| Silica, amorphous, treated | No Target Organs |
| Butanone oxime | Allergen, Blood, Central nervous system, Eyes, Irritant, Some evidence of carcinogenicity |
| Aluminum | Central nervous system, Irritant, Lung |

12. ECOLOGICAL INFORMATION

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|--------------------------------|---|
| 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, ground water, 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: Cured rubber can be incinerated or landfilled following EPA and local regulations.

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
Exceptions: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: One or more components of this product are not listed on the U.S. Toxic Substances Control Act (TSCA) inventory. As such, this product may only be used for research and development purposes as described in 40 CFR 720.36. All other components of this product are listed or are exempt from listing.

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

CERCLA/SARA Section 302 EHS: None above reporting de minimus
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA 313: None above reporting de minimus

California Proposition 65: 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

CEPA DSL/NDL Status: 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.

WHMIS hazard class: D.2.A, 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.

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