



Revision Number: 004.2

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 5699 Grey RTV 190ML AE	IDH number: 756302
Product type: Silicone sealant	Item number: 40505
	Region: United States
Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	Contact information: Telephone: 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 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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

WARNING: CONTENTS UNDER PRESSURE.
 PROLONGED OR REPEATED CONTACT WITH UNCURED ADHESIVE MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
 REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation:	Vapors and mists will irritate nose and throat and possibly eyes. 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:	May cause skin irritation with discomfort or rash. Repeated or prolonged skin contact may result in allergic sensitization.
Eye contact:	Vapors may irritate eyes. Contact with eyes will cause irritation.
Ingestion:	Not expected under normal conditions of use. May be harmful if swallowed.

Existing conditions aggravated by exposure: Not available

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Silicone Resin	Proprietary	30 - 60
Calcium carbonate	471-34-1	10 - 30
Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime	2224-33-1	5 - 10
Norflurane	811-97-2	5 - 10
Silica, amorphous, treated	68909-20-6	1 - 5
Butanone oxime	96-29-7	1 - 5

Methyl ethyl ketoxime (MEKO) is formed during cure. This product will release up to 5% MEKO. Exposure to moisture during cure will release 0.1 - 0.9% methanol.

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
Skin contact:	Wipe off paste with paper towel or cloth. Wash with soap and water. Obtain medical attention if irritation persists.
Eye contact:	Flush eye(s) immediately with plenty of water. If symptoms develop and persist, get medical attention.
Ingestion:	Seek medical advice.

5. FIRE FIGHTING MEASURES

Flash point:	> 93.00 °C (> 199.4 °F) Tagliabue closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Extinguishing media:	water, carbon dioxide, foam, powder
Special firefighting procedures:	Wear self contained breathing apparatus.
Unusual fire or explosion hazards:	None expected.
Hazardous combustion products:	Oxides of carbon, oxides of nitrogen, irritating organic vapors. Oxides of silicon. Thermal oxidation may result in the formation of formaldehyde. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat.

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:	Wipe up using absorbent material Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

- Handling:** Avoid breathing vapors or mists of this product. Use only in area provided with appropriate exhaust ventilation. 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:** For safe storage, store between 8 °C (46.4 °F) and 28 °C (82.4 °F). Store in original container until ready to use.

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
Silicone Resin	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
Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime	None	None	None	None
Norflurane	None	None	1,000 ppm (4,240 mg/m3) TWA	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

- Engineering controls:** Ensure adequate ventilation, especially in confined areas.
- 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:** Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|--|
| Physical state: | Paste |
| Color: | Grey |
| Odor: | Mild |
| Odor threshold: | Not available |
| pH: | Not available |
| Vapor pressure: | Not available |
| Boiling point/range: | Not available |
| Melting point/ range: | Not available |
| Vapor density: | Not available |
| Flash point: | > 93.00 °C (> 199.4 °F) Tagliabue closed cup |
| Flammable/Explosive limits - lower: | Not available |
| Flammable/Explosive limits - upper: | Not available |
| 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: | 3.9 %; 53.7 g/l |

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Oxides of silicon. Carbon dioxide, carbon monoxide and irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion. Formaldehyde.
Incompatible materials:	Acids. Bases. Oxidizing agents.
Conditions to avoid:	Avoid contact with water.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silicone Resin	No	No	No
Calcium carbonate	No	No	No
Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime	No	No	No
Norflurane	No	No	No
Silica, amorphous, treated	No	No	No
Butanone oxime	No	No	No

Hazardous components	Health Effects/Target Organs
Silicone Resin	No Target Organs
Calcium carbonate	Nuisance dust
Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime	Irritant, Allergen
Norflurane	Cardiac, Central nervous system, Irritant, Respiratory, Skin
Silica, amorphous, treated	No Target Organs
Butanone oxime	Allergen, Blood, Central nervous system, Eyes, Irritant, Some evidence of carcinogenicity

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, 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.
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13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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

Proper shipping name: Aerosols
Hazard class or division: 2.2
Identification number: UN 1950
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, non-flammable
Hazard class or division: 2.2
Identification number: UN 1950
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS
Hazard class or division: 2.2
Identification number: UN 1950
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

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

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.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Lou Fabrizio, Regulatory Affairs Specialist

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