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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: 5699 Grey RTV 190ML AE
Product type: Silicone Sealant
Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No. : 40505 / IDH No. 756302
Region: United States
Contact Information:
 Telephone: 860.571.5100
 Emergency telephone: 860.571.5100
 Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Silicone Resin Proprietary	30-60	None	None	None
Calcium carbonate 471-34-1	10-30	10 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica)	15 mg/m ³ TWA (total dust) 5 mg/m ³ TWA (respirable fraction)	None
Mineral Filler Proprietary	10-30	None	None	None
Oximino silaneProprietary	5-10	None	None	None
1,1,1,2-Tetrafluoroethane 811-97-2	5-10	None	None	AEL- 1000 ppm 8 & 12 hour TWA. WEEL 1000 ppm 8 & 12 hour TWA (AIHA), 1000 ppm TWA, (WEEL) 6 mg/m ³
Silica, amorphous, treated 68909-20-6	1-5	10 mg/m ³ (Inhal)	20mppcf	
Methyl ethyl ketoxime 96-29-7	1-5	None	None	10 ppm, dermal sensitizer TWA, (WEEL)

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

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Aerosol Paste
Color: Grey
Odor: Mild petroleum

HMIS:

HEALTH: 2*
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

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

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation:	Vapors and mists will irritate the respiratory tract and nasal passages. 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 may cause skin burns. Overexposure may cause coma and respiratory failure. 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:	Skin disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

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

5. FIRE-FIGHTING MEASURES

Flash point:	Greater than 93°C (200°F) Tagliabue closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	Not available
Flammable/Explosive limits-upper %:	Not available
Extinguishing media:	Carbon dioxide (CO2). Foam. Dry chemical.
Special fire fighting procedures:	Use water spray to keep fire exposed containers cool.
Unusual fire or explosion hazards:	Contents under pressure. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
Hazardous combustion products:	Oxides of carbon. Oxides of silicon. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Do not flush into surface water or sanitary sewer 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:	Avoid contact with eyes, skin and clothing. Avoid breathing 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:	Contents under pressure. Store at or below 32°C (90°F). Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst.
Incompatible products:	Never allow product to get in contact with water during storage.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.
Respiratory protection:	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.
Skin protection:	Chemical resistant, impermeable gloves. Impervious clothing
Eye/face protection:	Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol Paste
Color:	Grey
Odor:	Mild petroleum
Vapor pressure:	<5 mmHg @20°C (68° F)
pH:	Not applicable
Boiling point/range:	Not available
Melting point/range:	Not available
Specific gravity:	1.45 at 20 deg. C
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Polymerizes in presence of water
Partition coefficient (n-octanol/water):	Not available
VOC content:	3.9%; 53.7 grams/liter

10. STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Oxides of silicon. Formaldehyde. Methyl ethyl ketoxime formed during cure.
Incompatability:	Acids and bases. Oxidizing agents.
Conditions to avoid:	Moisture.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Silicone Resin Proprietary	No	No	No
Calcium carbonate 471-34-1	No	No	No
Mineral Filler Proprietary	No	No	No
Oximino silaneProprietary	No	No	No
1,1,1,2-Tetrafluoroethane 811-97-2	No	No	No
Silica, amorphous, treated 68909-20-6	No	No	No
Methyl ethyl ketoxime 96-29-7	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Silicone Resin Proprietary	No Target Organs
Calcium carbonate 471-34-1	Nuisance dust
Mineral Filler Proprietary	No data
Oximino silaneProprietary	Allergen, Irritant
1,1,1,2-Tetrafluoroethane 811-97-2	Cardiac, Central nervous system, Irritant, Respiratory, Skin
Silica, amorphous, treated 68909-20-6	No Target Organs
Methyl ethyl ketoxime 96-29-7	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, groundwater, 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.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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

Proper shipping name: Aerosols, non-flammable
Hazard class or division: 2.2
Identification number: UN 1950
Packing group: None
Exceptions: Aerosols, not more than 1 L - Consumer Commodity

International Air Transportation (ICAO/IATA):

Proper shipping name: Aerosols, non-flammable
Hazard class or division: 2.2

Item No. : 40505 / IDH No. 756302

Product name: 5699 Grey RTV 190ML AE

Identification number: UN 1950
Packing group: None

WaterTransportation (IMO/IMDG):

Proper shipping name: Aerosols, Non-flammable
Hazard class or division: 2.2
Identification number: UN 1950
Packing group: None
Exceptions: None
Marine pollutant: None known

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.

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

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

Canada Regulatory Information

CEPA DSL/NDL Status: Contains one or more components for which a Schedule I has been filed.
WHMIS hazard class: A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 3,15

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