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**Technologies**

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: RTV Red Silicone Sensor-Safe Hi-Temp Gasket
Maker
Product Use: Silicone Rubber Sealant
Company address: Henkel Canada, Inc.
2225 Meadowpine Boulevard
Mississauga, Ontario L5N 7P2

Item No. : 37529 / IDH No. 495538
Region: Canada
Contact Information:
Telephone: 905.814.6511
Emergency telephone: 905.814.6511
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	60-100	None	None	None
Filler Proprietary	5-10	6 mg/m ³ TWA	10 mg/m ³ TWA	3 mg/m ³ TWA respirable dust
Liquified petroleum propellant 68476-86-8	1-5	None	None	None
Iron oxide 1309-37-1	1-5	1 mg/m ³ TWA 5 mg/m ³ TWA	10 mg/m ³ TWA	None
Methyltriacetoxysilane 4253-34-3	1-5	None	None	None
Ethyltriacetoxysilane 17689-77-9	1-5	None	None	None

Exposure to moisture during cure will release 1-5% acetic acid. The above components are hazardous as defined in 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Physical state: Aerosol Paste
Color: Black
Odor: Acetic Acid

WHMIS hazard class: A, B.5, D.2.A, D.2.B

DANGER: EXTREMELY FLAMMABLE.
CONTENTS UNDER PRESSURE.
PROLONGED OR REPEATED CONTACT WITH UNCURED SEALANT MAY CAUSE EYE, SKIN
AND RESPIRATORY TRACT IRRITATION.
REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin contact, Eye contact, Inhalation**Potential Health Effects****Inhalation:**

In a confined area, high concentrations of vapors may cause headache, nausea, and dizziness. Acetic acid produced during cure may irritate eyes, nose and throat. 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. Harmful by inhalation.

Skin contact:

May cause skin irritation.

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Eye contact:
Ingestion:

Vapors may irritate eyes. Contact with eyes will cause irritation.
Not expected to be harmful by ingestion.

Existing conditions aggravated by exposure:

Eye, skin, and respiratory 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 thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

Ingestion:

Do not induce vomiting. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Notes to physician:

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point:

(Base only) Greater than 93°C (200°F) Tagliabue closed cup

Flashback:

This product exhibits flashback when tested for flame extension.

Flame Projection:

Greater than 46 cms (18 inches)

Autoignition temperature:

Not available

Flammable/Explosive limits-lower %:

0.9 (value for propellant).

Flammable/Explosive limits-upper %:

10 (value for propellant).

Extinguishing media:

Carbon dioxide (CO2). Dry chemical. Foam. Water spray.

Special fire fighting procedures:

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Water spray may be ineffective. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Unusual fire or explosion hazards:

Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat.

Hazardous combustion products:

Acrid smoke and fumes. Formaldehyde. Irritating organic vapors.

Sensitivity to mechanical impact:

Not available.

Sensitivity to static discharge:

Not available.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:

Prevent product from entering drains or open waters.

Clean-up methods:

Scrape up as much material as possible. Spilled material will solidify. Store in a closed container until ready for disposal. Maintain good ventilation for large spills.

7. HANDLING AND STORAGE

Handling:	Avoid all ignition sources in storing and handling this material. Keep cool in accordance with label instructions. Wear protective equipment when handling. Use only with adequate ventilation. Avoid contact with eyes, skin and 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:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products:	Avoid contact with water. Acids. Oxidizing agents.

For information on product shelf life contact Loctite Canada Customer Service at (905) 814-6511.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Ensure adequate ventilation, especially in confined areas.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Skin protection:	Chemical resistant, impermeable gloves.
Eye/face protection:	Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol Paste
Color:	Black
Odor:	Acetic Acid
Odor Threshold:	Not available
Vapor pressure:	<10 mmHg @20°C (68° F)
pH:	Not available
Boiling point/range:	Not available
Melting point/range:	Not available
Specific gravity:	1.01 at 20 deg. C Base only
Vapor density:	Heavier than air
Evaporation rate:	Slower than ether.
Solubility in water:	Insoluble. Polymerizes in presence of water
Partition coefficient (n-octanol/water):	Not available
VOC content:	8%; 82 grams/liter (calculated)

10. STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Acetic acid is liberated slowly upon contact with moisture. Formaldehyde.
Incompatability:	Acids. Bases. Oxidizing agents. Water.
Conditions to avoid:	Prolonged heating at temperatures above 150°C °C. Exposure to moisture.

11. TOXICOLOGICAL INFORMATION

Product toxicity data:	No experimental toxicological data on the preparation as such is available. Data on the individual components of this mixture is available in the standard literature, or can be obtained by contacting the Health, Safety and Environment department at the address and phone number set forth in this MSDS.
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Toxicologically synergistic products:	Not available.
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Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.

Ingredient Toxicity Data & Carcinogen Status

Hazardous components	LD50s & LC50s	Other LD50s and LC50s	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen	ACGIH - Carcinogens
Silicone Resin Proprietary	() Oral LD50 Rat: >17 g/kg; Dermal LD50 Rabbit: >2 g/kg	None	No	No	No	No
Filler Proprietary	Dermal LD50 (Rabbit) > 2000 mg/kg Oral LD50 (Rat) > 5000 mg/kg	None	No	No	No	No
Liquified petroleum propellant 68476-86-8	None	None	No	No	No	No
Iron oxide 1309-37-1	Oral LD50 (Rat) = 984 mg/kg Oral LD50 (Rat) > 10000 mg/kg	None	No	No	No	A4 - Not Classifiable as a Human Carcinogen (dust and fume)
Methyltriacetoxysilane 4253-34-3	Oral LD50 (Rat) = 2060 mg/kg	None	No	No	No	No
Ethyltriacetoxysilane 17689-77-9	None	None	No	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Silicone Resin Proprietary	Irritant
Filler Proprietary	Nuisance dust
Liquified petroleum propellant 68476-86-8	No data
Iron oxide 1309-37-1	Lung, Liver, Kidney, Irritant, Central nervous system, Cardiac, Allergen
Methyltriacetoxysilane 4253-34-3	Allergen, Irritant
Ethyltriacetoxysilane 17689-77-9	No Target Organs

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: Dispose of according to Canadian and local regulations.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

Canada Transportation of Dangerous Goods - Ground:

Proper shipping name: Aerosols, flammable

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Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Exceptions: May qualify as a Consumer Commodity or Limited Quantity. Refer to TDG regulations.

International Air Transportation (ICAO/IATA):

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN1950
Packing group: None
Exceptions: May Qualify as Consumer Commodity ID8000

WaterTransportation (IMO/IMDG):

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN1950
Packing group: None
Marine pollutant: None

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Domestic Substances List.

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.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 2,3,7,8,13,15

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Product Regulations.

Prepared by: Lou Fabrizio, Senior Health & Regulatory Affairs Specialist

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