



Revision Number: 004.2

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LOCTITE SI 596 RD known as LOCTITE® SUPERFLEX® RED HIGH T	IDH number:	198817
Product use:	Silicone rubber sealant	Item number:	59675
		Region:	Canada
Company address:	Contact information:		
Henkel Canada Corporation	Telephone: 905.814.6511		
2515 Meadowpine Boulevard	MEDICAL EMERGENCY Phone: Poison Control Center		
Mississauga, Ontario L5N 6C3	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	WHMIS hazard class:	D.2.B
Color:	Red		
Odor:	Acetic acid		

CAUTION: 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: Lungs, Skin, Eye contact

Potential Health Effects

Inhalation:	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.
Skin contact:	May cause skin irritation.
Eye contact:	Vapors may irritate eyes. Contact with eyes will cause irritation.
Ingestion:	Not expected to be harmful by ingestion.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Distillates (petroleum), hydrotreated middle	64742-46-7	5 - 10
Silicon dioxide	7631-86-9	5 - 10
Diiron trioxide	1309-37-1	1 - 5
Methylsilanetriyl triacetate	4253-34-3	1 - 5
Triacetoxethylsilane	17689-77-9	1 - 5
Acetic acid	64-19-7	0.1 - 1

Acetic acid is liberated slowly upon contact with moisture.

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.
Eye contact:	If eye irritation persists, consult a specialist. Rinse thoroughly with plenty of water, also under the eyelids.
Ingestion:	If a person feels unwell or symptoms of skin irritation appear, consult a physician. Do not induce vomiting.
Notes to physician:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash point:	> 93 °C (> 199.4 °F)
Autoignition temperature:	Not available.
Flammable/Explosive limits - lower:	4 % (acetic acid)
Flammable/Explosive limits - upper:	19.9 % (acetic acid)
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special firefighting procedures:	None
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Silica mist. Formaldehyde. Acrid smoke and fumes.
Sensitivity to Mechanical Impact:	Not available.
Sensitivity to static discharge:	Not available.

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 product to enter sewer or waterways.
Clean-up methods:	Maintain good ventilation for large spills. Store in a partly filled, closed container until disposal. Spilled material will solidify. Scrape up as much material as possible.

7. HANDLING AND STORAGE

Handling:	Do not get in eyes. Do not wear contact lenses. Avoid contact with eyes, skin and clothing. Do not get on skin or clothing.
Storage:	Keep container closed. Store in a dry area below 90° F.

For information on product shelf life contact Henkel Canada Customer Service at 800-263-5043.

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
Distillates (petroleum), hydrotreated middle	None	5 mg/m3 PEL Mist.	None	None
Silicon dioxide	6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction.
Diiron trioxide	5 mg/m3 TWA Respirable fraction.	10 mg/m3 PEL Fume.	None	None
Methylsilanetriyl triacetate	None	None	None	None
Triacetoxylethylsilane	None	None	None	None
Acetic acid	15 ppm STEL 10 ppm TWA	10 ppm (25 mg/m3) PEL	None	None

Engineering controls:	Use only with adequate ventilation.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s). No personal respiratory protective equipment normally required.
Eye/face protection:	Safety goggles or safety glasses with side shields.
Skin protection:	Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Red
Odor:	Acetic acid
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	Not available.
Boiling point/range:	Not available.
Melting point/ range:	Not available.
Specific gravity:	1.01 at 20 °C (68°F)
Vapor density:	Heavier than air.
Flash point:	> 93 °C (> 199.4 °F)
Flammable/Explosive limits - lower:	4 % (acetic acid)
Flammable/Explosive limits - upper:	19.9 % (acetic acid)
Autoignition temperature:	Not available.
Evaporation rate:	Not available.
Solubility in water:	Not soluble. Polymerizes in presence of water.
Partition coefficient (n-octanol/water):	Not available.
VOC content:	3.08 %; 32 g/l

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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.

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Distillates (petroleum), hydrotreated middle	No	No	No
Silicon dioxide	No	No	No
Diiron trioxide	No	No	No
Methylsilanetriyl triacetate	No	No	No
Triacetoxethylsilane	No	No	No
Acetic acid	No	No	No

Hazardous components	LD50s and LC50s	Health Effects/Target Organs
Distillates (petroleum), hydrotreated middle	None	Irritant
Silicon dioxide	Oral LD50 (RAT) > 22,500 mg/kg	Nuisance dust
Diiron trioxide	None	Allergen, Cardiac, Central nervous system, Irritant, Kidney, Liver, Lung
Methylsilanetriyl triacetate	None	Irritant, Allergen
Triacetoxethylsilane	None	No Target Organs
Acetic acid	Oral LD50 (RABBIT) = 1,200 mg/kg Oral LD50 (RAT) = 3.53 g/kg Oral LD50 (RAT) = 3.31 g/kg Dermal LD50 (RABBIT) = 1,060 mg/kg Inhalation LC50 (RAT, 4 h) = 11.4 mg/l	Allergen, Corrosive, Eyes, Gastrointestinal, Immune system, Irritant, Kidney

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

Canada Transportation of Dangerous Goods - Ground

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

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian 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: Updated composition in Section 3., Reviewed MSDS. Reissued with new date.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR), and the MSDS contains all the information required by the CPR.

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