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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) Superflex(R) Red High Temp RTV Silicone Adhesive Sealant
Product type: Silicone
Company address: Henkel Corporation, 1001 Trout Brook Crossing, Rocky Hill, Connecticut 06067
Item No.: 59675
Region: United States
Contact Information: Telephone: 860.571.5100, Emergency telephone: 860.571.5100, Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Table with 5 columns: Hazardous components, %, ACGIH TLV, OSHA PEL, OTHER. Rows include Poly(dimethylsiloxane), hydroxy terminated, Silica, amorphous (fumed), Distillates (petroleum), hydrotreated middle, Dimethyl polysiloxane, Ethyltriacetoxysilane, Methyltriacetoxysilane, and Acetic acid.

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
HMIS:
Physical state: Paste
Color: Red
Odor: Acetic Acid
HEALTH: 2
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8
CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin contact, Eye contact, Inhalation

Potential Health Effects

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**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.**

#### 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:** Greater than 93°C (200°F) Tagliabue closed cup

**Autoignition temperature:** Not available

**Flammable/Explosive limits-lower %:** Acetic acid: 4%

**Flammable/Explosive limits-upper %:** Acetic acid: 19.9% @ 200°F

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

**Special fire fighting procedures:** None

**Unusual fire or explosion hazards:** None

**Hazardous combustion products:** Formaldehyde. Silica Mist. Acrid smoke and fumes.

#### 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.

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## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with eyes, skin and clothing. Do not get in eyes. Do not get on skin or clothing. Do not wear contact lenses.
<b>Storage:</b>	Store in a dry area below 90° F Keep container closed.
<b>Incompatible products:</b>	Avoid contact with water. Acids. Oxidizing agents.

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Paste
<b>Color:</b>	Red
<b>Odor:</b>	Acetic Acid
<b>Vapor pressure:</b>	<10 mmHg @20°C (68° F)
<b>pH:</b>	Not applicable
<b>Boiling point/range:</b>	Not available
<b>Melting point/range:</b>	Not available
<b>Specific gravity:</b>	1.01 at 20 deg. C
<b>Vapor density:</b>	Heavier than air
<b>Evaporation rate:</b>	Not available
<b>Solubility in water:</b>	Insoluble Polymerizes in presence of water
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	3.08%; 32 grams/liter

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

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Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Poly(dimethylsiloxane), hydroxy terminated 70131-67-8	No	No	No
Silica, amorphous (fumed) 7631-86-9	No	No	No
Distillates( petroleum), hydrotreated middle 64742-46-7	No	No	No
Dimethyl polysiloxane 63148-62-9	No	No	No
Ethyltriacetoxysilane 17689-77-9	No	No	No
Methyltriacetoxysilane 4253-34-3	No	No	No
Acetic acid 64-19-7	No	No	No

#### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Poly(dimethylsiloxane), hydroxy terminated 70131-67-8	No Target Organs
Silica, amorphous (fumed) 7631-86-9	Nuisance dust
Distillates( petroleum), hydrotreated middle 64742-46-7	Irritant
Dimethyl polysiloxane 63148-62-9	Irritant
Ethyltriacetoxysilane 17689-77-9	No Target Organs
Methyltriacetoxysilane 4253-34-3	Allergen, Irritant
Acetic acid 64-19-7	Kidney, Irritant, Immune system, Gastrointestinal, Eyes, Corrosive, Allergen

## 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 according to EPA and local governmental regulations. 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: Not regulated  
 Hazard class or division: None  
 Identification number: None  
 Packing group: None

### International Air Transportation (ICAO/IATA):

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Proper shipping name: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: None

**WaterTransportation (IMO/IMDG):**

Proper shipping name: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: 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  
**CERCLA/SARA 313:** None.

**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/NDSL Status:** All components are listed on or are exempt from listing on the Domestic Substances List.  
**WHMIS hazard class:** D.2.B

**16. OTHER INFORMATION**

**This material safety data sheet contains changes from the previous version in sections:** This material safety data sheet contains changes from the previous version in section(s): 15

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