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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: 596 RTV Red 190ml AE
Product type: Silicone
Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No. : 40465 / IDH No. 743520
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>
Silica, amorphous (fumed) 7631-86-9	5-10	6 mg/m ³ TWA	10 mg/m ³ TWA	3 mg/m ³ TWA respirable dust
Distillates(petroleum), hydrotreated middle 64742-46-7	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) None
Iron oxide 1309-37-1	1-5	1 mg/m ³ TWA 5 mg/m ³ TWA	10 mg/m ³ TWA	None
Ethyltriacetoxysilane 17689-77-9	1-5	None	None	None
Methyltriacetoxysilane 4253-34-3	1-5	None	None	None

Exposure to moisture during cure will release 1-5% acetic acid.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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

HMIS:

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

CAUTION: CONTENTS UNDER PRESSURE.
 MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
 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. May cause allergic skin reaction.

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:	(Base only) Greater than 93°C (200°F) Tagliabue closed cup
Flashback:	This product exhibits no flashback when tested for flame extension.
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	Acetic acid: 4%
Flammable/Explosive limits-upper %:	Acetic acid: 19.9% @ 200°F
Extinguishing media:	Carbon dioxide (CO ₂). 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:	Oxides of carbon. Oxides of silicon. Formaldehyde.

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:	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 Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Ensure adequate ventilation, especially in confined areas.
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Respiratory protection: No personal respiratory protective equipment normally required. 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: Red
Odor: Acetic Acid
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: 3.08%; 32 grams/liter (calculated)

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Oxides of silicon. Oxides of carbon. Formaldehyde. Acetic acid is liberated slowly upon contact with moisture.

Incompatibility: 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.

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Silica, amorphous (fumed) 7631-86-9	No	No	No
Distillates(petroleum), hydrotreated middle 64742-46-7	No	No	No
1,1,1,2-Tetrafluoroethane 811-97-2	No	No	No
Iron oxide 1309-37-1	No	No	No
Ethyltriacetoxysilane 17689-77-9	No	No	No
Methyltriacetoxysilane 4253-34-3	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Silica, amorphous (fumed) 7631-86-9	Nuisance dust
Distillates(petroleum), hydrotreated middle 64742-46-7	Irritant
1,1,1,2-Tetrafluoroethane 811-97-2	Cardiac, Central nervous system, Irritant, Respiratory, Skin
Iron oxide 1309-37-1	Lung, Liver, Kidney, Irritant, Central nervous system, Cardiac, Allergen
Ethyltriacetoxysilane 17689-77-9	No Target Organs
Methyltriacetoxysilane 4253-34-3	Allergen, Irritant

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

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

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
Marine pollutant: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Aerosols, non-flammable
Hazard class or division: 2.2
Identification number: UN1950
Packing group: None

WaterTransportation (IMO/IMDG):

Proper shipping name: Aerosols, Non-flammable
Hazard class or division: 2.2
Identification number: UN1950
Packing group: None
Marine pollutant: 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.

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard, Sudden Release
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/NDSL Status: All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class: A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 2,3,5,10,14,15

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