



High Temperature Technologies, Inc.

Licensed provider of ISOMEMBRANE® components

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MSDS Number: 005

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MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Material Name: SuperflexTm Red RTV Silicone Adhesive Sealant
Sealant Low Volatile
Item Number: 59675
Product Type: RTV Silicone

Manufacturer/Supplier:

Loctite Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 05067-3910
Emergency Telephone: (860) 571-5100

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>
Poly(dimethylsiloxane), Dimethyl	63148-52-9	80 – 85
SILICA AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	10 - 15
Ethyltriacetoxysilane	17689-77-9	1 - 3
IRON OXIDE	1309-37-1	1 - 3
Methyltriacetoxysilane	4253-34-3	1 - 3
ACETIC ACID	64-19-7	***

***When this product is exposed to moisture, 3-5% acetic acid may be formed.

Ingredients which have exposure limits:

<u>Exposure Limits (TWA)</u> <u>Ingredients</u>	<u>ACGIH</u> <u>(TLV)</u>	<u>OSHA</u> <u>(PEL)</u>	<u>OTHER</u>
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA resp.dust
IRON OXIDE	5 mg/M3 (Fe)	10 mg/M3 (Fe) particulate	None
ACETIC ACID	10 ppm TWA 25 mg/m3	10 ppm TWA 25 mg/m3	None
<u>Exposure Limits (STEL)</u> <u>Ingredients</u>	<u>ACGIH</u> <u>(TLV)</u>	<u>OSHA</u> <u>(PEL)</u>	<u>OTHER</u>
ACETIC ACID	15 ppm 37 mg/m3	None	

3. HAZARDS IDENTIFICATION

Toxicity: Skin and eye irritant. May be irritating by inhalation. Moderately toxic by ingestion. When heated to temperatures above 300°F (150°C) in the presence of air, this product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate eyes, nose and throat. Safe handling conditions may be maintained by keeping vapor concentrations below the OSHA permissible limit for formaldehyde.

Primary Routes of Entry: Not known.

Signs and Symptoms of Exposure: Acetic acid produced during cure irritates eyes, nose, and throat.

Existing Conditions Aggravated by Exposure: Methyltriacetoxysilane: Eye, skin, and pulmonary disorders.

<u>Ingredients:</u>	<u>Literature Referenced Target Organ and Other Health Effects</u>	<u>Carcinogen</u>		
		<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
Poly(dimethylsiloxane), dimethyl SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	IRR	NO	NO	NO
Ethyltriacetoxysilane	NUI		N/A	NO
IRON OXIDE	No Data		NO	NO
Methyltriacetoxysilane	ALG CAR CNS IRR DID LIV LUN		N/A	NO
ACETIC ACID	NO		NO	NO
	ALG COR EYE GAS IMM IRR KID	NO	NO	NO

Abbreviations:

N/A	Not Applicable	ALG	Allergen
CAR	Cardiac	CNS	Central Nervous System
COR	Corrosive	EYE	Eyes
GAS	Gastrointestinal	IMM	Immune System
IRR	Irritant	KID	Kidney
LIV	Liver	LUN	Lung
NTO	No Target Organs	NUI	Nuisance dust

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation: Remove to fresh air. Treat symptomatically.

Skin Contact: Wipe off paste with paper towel or cloth. Wash exposed area with soap and water.

Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 200°F **Method:** Tag Closed Cup

Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical

Special Firefighting Procedures: Not available

Hazardous Products formed by Fire or Thermal Decomp.: Acetic acid, formaldehyde, silica fume

Unusual Fire or Explosion Hazards: None

Explosive Limits:

% by volume in air) Lower	Acetic acid: 4%
% by volume in air) Upper	Acetic acid: 19.9% at 200°F

6. ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Wipe and/or scrape up spilled material. Maintain good ventilation for large spills. Place scrap material in a well-ventilated place and allow to cure to rubber.

7. HANDLING AND STORAGE

Safe Storage: Store in a dry area. Keep container closed when not in use.
Contact Loctite Service 1-800-243-4874 for shelf life information.
Customer Handling: Avoid eye or skin contact. Avoid breathing vapor.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Provide local ventilation for prolonged use in confined area.
Respiratory: Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red paste
Odor: Acetic acid
Boiling point: Not applicable, polymeric material
pH: Does not apply
Solubility in Water: Polymerized
Specific Gravity: 1.05 at 60°F
Volatile Organic Compound (EPA Method 24) 3.4%; 35.7 g / l
Vapor Pressure: Less than 5mm at 70°F
Vapor Density: Not available
Evaporation Rate (Ether=1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur.
Incompatibility: Polymerized by contact with moisture. Acetic acid liberated.
Conditions to Avoid: Not available.
Hazardous Decomposition Products (non-thermal): None

SECTION 11 - TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL INFORMATION

Recommended Methods
of disposal: Cured rubber can be incinerated. Follow EPA local regulations;
EPA Hazardous Waste
Number: NH – Not a RCRA Hazardous Waste Material.

14. TRANSPORT INFORMATION

Department of Transportation (D.O.T.):
Domestic Ground Transport
Proper Shipping Name: Unrestricted
Hazard Class or
Division: Unrestricted
Identification Number: None
Marine Pollutant: None
IATA
Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None

15. REGULATORY INFORMATION

CA Proposition 65: No prop 65 chemicals known to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 2
Fire Hazard: 1
Reactivity Hazard: 1
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 2
Flammability Hazard: 1
Reactivity Hazards: 1
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Association.
HMIS is a registered trademark of the National Paint and Coating Association.