

HENKEL LOCTITE CORPORATION

01/12/03

XEROX MSDS#: 1-5019

ROCKY HILL, CONNECTICUT 06067  
EMERGENCY PHONE: (860) 571-5100

XEROX PART#: 63P463

## MATERIAL SAFETY DATA SHEET

Loctite(R) Superflex(R) Clear RTV  
59530

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Loctite(R) Superflex(R) Clear RTV  
Silicone Adhesive Sealant

Item No.: 59530

Product Type: Silicone

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Poly(dimethylsiloxane), dimethyl	63148-62-9	85-90
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	5-10
Ethyltriacetoxysilane	17689-77-9	1-5
Methyltriacetoxysilane	4253-34-3	1-5
ACETIC ACID	64-19-7	***

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

## Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA resp. dust
ACETIC ACID	10 ppm TWA 25 mg/m3	10 ppm TWA 25 mg/m3	None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
ACETIC ACID	15 ppm 37 mg/m3	None	

3. HAZARDS IDENTIFICATION

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Toxicity: Eye and skin irritant. Moderate 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.

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3. HAZARDS IDENTIFICATION

(continued)

Safe handling conditions may be maintained by keeping vapor concentrations below the OSHA permissible limit for formaldehyde.

Primary Routes of Entry: Skin, ingestion, inhalation.  
 Signs and Symptoms of Exposure: Acetic acid produced during cure irritates eyes, nose, and throat.  
 Prolonged or repeated exposure may irritate skin.

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

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Poly(dimethylsiloxane), dimethyl	IRR	NO	NO	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO
Ethyltriacetoxysilane	No Data	NO	NO	NO
Methyltriacetoxysilane	NTO	NO	NO	NO
ACETIC ACID	ALG COR EYE GAS IMM IRR KID	NO	NO	NO

Abbreviations

N/A Not Applicable	ALG Allergen
COR Corrosive	EYE Eyes
GAS Gastrointestinal	IMM Immune system
IRR Irritant	KID Kidney
NTO No Target Organs	NUI Nuisance dust

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## 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.

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## 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

Steps to be taken in case of spill or leak: Wipe 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.

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## 7. HANDLING AND STORAGE

Safe Storage: Store in a dry area below 90°F. Keep container closed when not in use.  
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)  
Handling: Avoid breathing vapor. Avoid eye or skin contact. Acetic acid vapor released during application and cure. Do not wear contact lenses while applying material. Vapor may be trapped under lens.

## 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: Clear paste  
Odor: Sharp, Irritating  
Boiling Point: Not Applicable, Polymeric material

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

(continued)

pH: Does not apply  
Solubility in Water: Polymerized  
Specific Gravity 1.01  
Volatile Organic Compound  
(EPA Method 24) 4.7%; 47.47 grams per liter

Vapor Pressure: 10mm at 80°F  
Vapor Density: Not available  
Evaporation Rate  
(Ether = 1) Not available

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## 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

## 11. TOXICOLOGICAL INFORMATION

Oral LD50 = 2060 mg/kg.

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Cured rubber scrap can be incinerated. Follow EPA and local regulations.

EPA Hazardous Waste Number: NH - Not a RCRA Hazardous Waste Material

## 14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Unrestricted

Hazard Class or

Division: Unrestricted

Identification Number: None

Marine Pollutant: None

IATA

Proper Shipping Name: Unrestricted

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## 14. TRANSPORTATION INFORMATION

(continued)

Class or Division: Unrestricted  
UN or ID Number: None

## 15. REGULATORY INFORMATION

CA Proposition 65: No California Proposition 65 chemicals are 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 Assn.  
HMIS is a registered trademark of the National Paint and Coatings Assn.

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Revision Date: September 24, 2001                      Revision: 0036

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