

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING
 ROCKY HILL, CT 06067-3910
 EMERGENCY PHONE: (860) 571-5100

ISSUED 11/05/97
 15:51:21
 FAX: (860) 571-5465

B# 97917

MATERIAL SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Form-A-Gasket(R) High Temp Silicone - Red
 Item No.: 81915
 Product Type: RTV-Silicone

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
SEALANT		
Poly(dimethylsiloxane), hydroxy terminated	70131-67-8	85-90
SILICA, AMORPHOUS (FUMED)	7631-86-9	5-10
Ethyltriacetoxysilane	17689-77-9	1-3
IRON OXIDE	1309-37-1	1-3
Methyltriacetoxysilane	4253-34-3	1-3
ACETIC ACID	64-19-7	***
PROPELLANT		
PROPANE	74-98-6	5-80
ISOBUTANE	75-28-5	5-80

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

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
SEALANT			
SILICA, AMORPHOUS (FUMED)	10mg/m3 TWA	6mg/m3 TWA	None
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
PROPELLANT			
PROPANE	Asphyxiant	1000 ppm 1800 mg/m3	None
Exposure Limits (STEL) Ingredients			
SEALANT			
ACETIC ACID	15 ppm 37 mg/m3	None	
PROPELLANT			

3. HAZARDS IDENTIFICATION

Toxicity: Eye and skin irritant.
 When heated to temperatures above 300°F (150°F) 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: None known

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3. HAZARDS IDENTIFICATION

(continued)

Signs and symptoms
 of Exposure:

Acetic acid produced during cure irritates eyes,
 nose throat. May cause moderate corneal injury to
 eyes.
 Inhalation may may cause difficulty in breathing.
 Ingestion may cause vomiting.

Existing Conditions
 Aggravated by Exposure:

Heart disease and respiratory disorders.
 Methyltriacetoxysilane: Eye, skin, and pulmonary
 disorders.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
SEALANT				
Poly(dimethylsiloxane), hydroxy terminated	No Data	NO	NO	NO
SILICA, AMORPHOUS (FUMED)	NUI	NO	N/A	NO
Ethyltriacetoxysilane	No Data	NO	NO	NO
IRON OXIDE	AC4 ALG LUN	NO	N/A	NO
Methyltriacetoxysilane	No Data	NO	NO	NO
ACETIC ACID	COR EYE GAS IMM IRR	NO	NO	NO

PROPELLANT

PROPANE	CAR CNS IRR	NO	NO	NO
ISOBUTANE	CAR CNS LUN	NO	NO	NO

Abbreviations

NA Not Applicable	AC4 ACGIH-Unclassifiable as human carc.
ALLG Allergen	CAR Cardiac
CNS Central nervous system	COR Corrosive
EYE Eyes	GAS Gastrointestinal
IMM Immune system	IRR Irritant
LUN Lung	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: 212°F (Base only) Method: Tag closed cup
 Recommended Extinguishing Agents: Carbon dioxide, water fog, 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: Containers may vent, rupture, or burst at elevated
 temperatures.
 Explosive Limits:
 (% by volume in air) Lower Acetic acid: 4%
 (% by volume in air) Upper Acetic acid: 19.9% at 200°F.

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Product Name: Form-A-Gasket(R) High Temp Silicone - Red
Item No.: 819156. ACCIDENTAL RELEASE MEASURESSteps to be taken in case
of spill or leak: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 dry area, below 120°F away from heat,
spark or open flame.(Contact Loctite Customer
Handling:Service 1-800-243-4874 for shelf Life information)
Avoid breathing vapor. Avoid eye contact or
prolonged skin contact. Do not puncture containers.8. EXPOSURE CONTROLS, PERSONAL PROTECTIONEyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Provide local ventilation for prolonged use in a
confined area.
Respiratory: Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

The properties listed below apply to the base material only.

Appearance: Red paste
Odor: Acetic acid
Boiling Point: None: Polymeric Material
Solubility in Water: Does not apply
Specific Gravity: Nil
Volatile Organic Compound: 1.04
(EPA Method 24) 11.2%; 116 grams per liter maximum (calculated)

The properties listed below apply to the propellant only.

Vapor Pressure: 65 psig
Vapor Density: Heavier than air
Evaporation Rate: Not available
(Ether = 1)10. STABILITY AND REACTIVITYStability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Adhesive is polymerized by contact with moisture.
Acetic acid liberated.
Conditions to Avoid: Not available
Hazardous Decomposition
Products (non-thermal): Acetic acid fumes.11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONSRecommended methods of
disposal:Cured rubber scrap can be incinerated. Follow EPA
local regulations for disposal of aerosol cans.EPA Hazardous Waste
Number:

D001 - Hazardous waste per 40CFR 261.21

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Item No.: 81915

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport
Proper Shipping Name: Consumer Commodity
Hazard Class or Division: ORM-D
Identification Number: None
Marine Pollutant: None

IATA
Proper Shipping Name: Consumer Commodity (Not more than 500 ml);
Aerosols, flammable n.o.s. (More than 500 ml)
Class or Division: Class 9 (Not more than 500 ml);
Division 2.1 (More than 500 ml)
UN or ID Number: ID 8000 (Not more than 500 ml);
UN 1950 (More than 500 ml)

15. REGULATORY INFORMATION

CA Proposition 65: Not available

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 1
Fire Hazard: 4
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 1
Flammability Hazard: 4
Reactivity Hazards: 0
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.

Prepared By: Stephen Repetto
Title: Research Chemist, Health and Safety
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(24hr.) Phone: (860) 571-5100
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