

LOCTITE CORPORATION

12/10/98

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

MATERIAL SAFETY DATA SHEET

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Permatex(R) Blue RTV Silicone Gasket Maker
81860

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.: Sensor-Safe
81860
Part No.: 6MA
Product Type: Silicone

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
SEALANT		
Poly(dimethylsiloxane), hydroxy terminated	70131-67-8	80-90
Proprietary	Proprietary	10-30
SILICA, AMORPHOUS	7631-86-9	5-15
Ethyltriacetoxysilane	17689-77-9	1-10
Methyltriacetoxysilane	4253-34-3	1-10
Poly(dimethylsiloxane), dimethyl	63148-62-9	1-10
ACETIC ACID	64-19-7	***

PROPELLANT

BUTANE	106-97-8	5-80
ISOBUTANE	75-28-5	5-80
PROPANE	74-98-6	5-80

*** Up to 5% acetic acid may be released upon exposure to moisture.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
SEALANT			
Proprietary	None	15 mg/m3	None
SILICA, AMORPHOUS	10mg/m3 TWA	6mg/m3 TWA	None
ACETIC ACID	10 ppm TWA	10 ppm TWA	None
	25 mg/m3	25 mg/m3	

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2. COMPOSITION, INFORMATION ON INGREDIENTS

(continued)

PROPELLANT

BUTANE	800 ppm TWA 1900mg/M3	800 ppm TWA 1900mg/M3	None
PROPANE	2500 ppm	1000 ppm 1800 mg/m3	None

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
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SEALANT

ACETIC ACID	15 ppm 37 mg/m3	None
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PROPELLANT

PROPANE	Asphyxiant	Asphyxiant
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3. HAZARDS IDENTIFICATION

Toxicity: Eye and skin irritant. May also irritate lips, gums, tongue, mouth, nose, and throat. May be harmful if swallowed.
No injury from silica dust should occur during reasonable use. If use creates respirable particles, some respiratory systems injury may occur. This product, as with any chemical, may enhance allergic conditions in certain people. Unnecessary exposure to any chemical should be avoided. Cured sealant is nonhazardous.
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: Skin, eyes, inhalation, ingestion.

Signs and Symptoms of Exposure: Acetic acid produced during cure irritates

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3. HAZARDS IDENTIFICATION (continued)

eyes, nose, and throat.
Swallowing large amounts may cause digestive discomfort. Vapor overexposure may irritate nose, throat, and eyes seriously with moderate corneal injury and considerable redness lasting a week or more.

Existing Conditions Aggravated by Exposure: 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
Proprietary	No Data	NO	NO	NO
SILICA, AMORPHOUS	NUI	NO	N/A	NO
Ethyltriacetoxysilane	No Data	NO	NO	NO
Methyltriacetoxysilane	No Data	NO	NO	NO
Poly(dimethylsiloxane), dimethyl	IRR	NO	NO	NO
ACETIC ACID	COR EYE GAS IMM IRR	NO	NO	NO
PROPELLANT				
BUTANE	CAR CNS IRR	NO	NO	NO
ISOBUTANE	CAR CNS LUN	NO	NO	NO
PROPANE	CAR CNS IRR	NO	NO	NO

Abbreviations

N/A Not Applicable	CAR Cardiac
CNS Central nervous system	COR Corrosive
EYE Eyes	GAS Gastrointestinal
IMM Immune system	IRR Irritant
LUN Lung	NUI Nuisance dust

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4. FIRST AID MEASURES

Ingestion: Rinse mouth with water several times.
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 detergent and water.
Obtain medical attention if irritation persists.

Eye Contact: Immediately flush at least 15 minutes with plenty
of water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 200°F (Base) Method: Tag Closed Cup
Recommended

Extinguishing Agents: Carbon dioxide, foam, dry chemical, water fog
Special Firefighting

Procedures: Keep containers cool. Use equipment or shielding
required to protect against bursting or venting
containers.

Hazardous Products formed

by Fire or Thermal Decomp Acetic acid, formaldehyde, silica fume, oxides of carbon.

Unusual Fire or

Explosion Hazards: Heated cans may burst.

Explosive Limits:

(% by volume in air)Lower Not available

(% by volume in air)Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case
of spill or leak:

Remove sources of ignition.
Wear proper protection equipment as specified in Section 8. Wipe, scrape, or soak up spilled material with an inert absorbent. Maintain good ventilation for large spills. Place scrap material in a well ventilated place and allow to cure to rubber. Wash walking surface with detergent and water to reduce slipping hazard.

7. HANDLING AND STORAGE

Safe Storage:

Store in a dry area below 90°F away from heat, sparks, or open flames.

(Contact Loctite Customer
Handling:

Service 1-800-243-4874 for shelf life information)
Keep away from heat, sparks, or open flames.

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7. HANDLING AND STORAGE

(continued)

Avoid breathing vapor. Avoid eye or skin contact.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:

Safety glasses or goggles.

Skin:

Cloth gloves under rubber or plastic gloves.

Ventilation:

Provide mechanical and local ventilation sufficient maintain vapor concentration below TLV.

Respiratory

Use NIOSH approved respirator if TLV is exceeded.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Blue paste

Odor:

Acetic acid, slightly medicinal

Boiling Point:

Not Applicable, Polymeric material

pH:

Does not apply

Solubility in Water:

Polymerized

Specific Gravity

1.04 at 70°F

Volatile Organic Compound

(EPA Method 24)

4.6%, 47.8 grams per liter

Vapor Pressure: 66 mm Hg at 70°F
 Vapor Density: More than 1
 Evaporation Rate
 (Ether = 1) Slower than butyl acetate

10. STABILITY AND REACTIVITY

Stability: Stable
 Hazardous Polymerization: Will not occur
 Incompatibility: Oxidizing material.
 Polymerized by contact with moisture.
 Conditions to Avoid: Not available
 Hazardous Decomposition
 Products (non-thermal): Acetic acid

11. TOXICOLOGICAL INFORMATION

Hydroxy terminated silicone:
 Oral LD50 more than 40,000 mg/kg (rat)
 Inhalation LC50 more than 535 mg/liter (rat)
 Methyltriacetoxysilane: Oral LD50 = 2060 mg/kg.
 Proprietary component:
 Estimated oral LD50 more than 40,000 mg/kg (rat)
 Estimated inhalation LC50 more than 535 mg/liter

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11. TOXICOLOGICAL INFORMATION

(continued)

(rat)

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
 Do not incinerate pressurized cans.

EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Consumer Commodity

Hazard Class or

Division: Unrestricted

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);

UN or ID Number: Division 2.1 (More than 500 ml)
 ID 8000 (Not more than 500 ml);
 UN 1950 (More than 500 ml)

15. REGULATORY INFORMATION

CA Proposition 65: No Prop65 chemicals are known to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 2
 Fire Hazard: Sealant: 1; Propellant: 4
 Reactivity Hazard: 1
 Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 2*
 Flammability Hazard: Sealant: 1; Propellant: 4
 Reactivity Hazards: 1

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16. OTHER INFORMATION

(continued)

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- Safety, Health & Regulatory Affairs

Company:

Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067

(24hr.) Phone:

(860) 571-5100

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