

PERMATEX INDUSTRIAL CORPORATION
ROCKY HILL, CONNECTICUT 06067
TELEPHONE: (860) 571-5100

07/02/97

MATERIAL SAFETY DATA SHEET

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Form-A-Gasket(R) High Temp Silicone - Red
81915

1. 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.	%
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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
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SEALANT

SILICA, AMORPHOUS (FUMED)	10mg/m3 TWA	6mg/m3 TWA	None
IRON OXIDE	5 mg/M3 (Fe) particulate	10 mg/M3 (Fe)	None
ACETIC ACID	10 ppm TWA 25 mg/m3	10 ppm TWA	None

PROPELLANT

PROPANE	Asphyxiant 1800 mg/m3	1000 ppm	None
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2. COMPOSITION, INFORMATION ON INGREDIENTS (continued)

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

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

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 amd respiratory disorders.
 Methyltriacetoxysilane: Eye, skin, and pulmonary disorders.

Ingredients	Literature Referenced		Carcinogen		
	Target Organ and Other Health Effects		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

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3. HAZARDS IDENTIFICATION

(continued)

PROPELLANT

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

Abbreviations

N/A Not Applicable	AC4 ACGIH-Unclassifiable as human carc.
ALG 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

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.

6. ACCIDENTAL RELEASE MEASURES

Steps 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

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6. ACCIDENTAL RELEASE MEASURES

(continued)

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 Service 1-800-243-4874 for shelf Life information)
Handling: Avoid breathing vapor. Avoid eye contact or
prolonged skin contact. Do not puncture containers.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Provide local ventilation for prolonged use in a
confined area.

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
pH: Does not apply
Solubility in Water: Nil
Specific Gravity 1.04
Volatile Organic Compound
(EPA Method 24) 11.2%; 116 grams per liter maximum (calculated)

The properties listed below apply to the propellant only.

Vapor Pressure: 66 psig
Vapor Density: Heavier than air
Evaporation Rate
(Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Adhesive is polymerized by contact with moisture.
Acetic acid liberated.
Conditions to Avoid: Not available

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10. STABILITY AND REACTIVITY (continued)

Hazardous Decomposition
Products (non-thermal): Acetic acid fumes.

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended 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

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

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16. OTHER INFORMATION (continued)

Estimated HMIS(R) Code:

Health Hazard: 1
Flammability Hazard: 4
Reactivity Hazards: 0
Personal Protection: See Section 8.

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HMIS is a registered trademark of the National Paint and Coatings Assn.

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