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PERMATEX, INC.

11/17/99

HARTFORD, CT 06106  
TELEPHONE: (877) 376-2839

MATERIAL SAFETY DATA SHEET

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Permatex(R) High-Temp RTV Silicone Gasket Maker  
81160

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Permatex(R) High-Temp RTV Silicone Gasket Maker  
 Item No.: 81160  
 Part No.: 26BR  
 Product Type: Silicone

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Poly(dimethylsiloxane), dimethyl	63148-62-9	80-85
SILICA, AMORPHOUS	7631-86-9	10-15
Methyltriacetoxysilane	4253-34-3	1-5
IRON OXIDE	1309-37-1	1-5
ACETIC ACID	64-19-7	***

\*\*\*When this product is exposed to moisture, 1-5% acetic acid is formed.

## Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
SILICA, AMORPHOUS	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

  

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
ACETIC ACID	15 ppm 37 mg/m3	None

## 3. HAZARDS IDENTIFICATION

Toxicity: Eye and skin irritant. Oral LD50 = 2060 mg/kg. When heated to temperatures above 300øF (150øF) 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

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## 3. HAZARDS IDENTIFICATION

(continued)

Primary Routes of Entry: by keeping vapor concentrations below the OSHA permissible limit for formaldehyde.  
Signs and Symptoms of Exposure: None known  
Existing Conditions Aggravated by Exposure: Acetic acid produced during cure irritates eyes, nose, and throat.  
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	NUI	NO	N/A	NO
Methyltriacetoxysilane	NTO	NO	NO	NO
IRON OXIDE	ALG CAR CNS IRR KID LIV LUN	NO	N/A	NO
ACETIC ACID	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 200øF Method: Tag Closed Cup

Recommended  
Extinguishing Agents: Carbon dioxide, foam, dry chemical

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5. FIRE FIGHTING MEASURES

(continued)

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 200øF

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.

7. HANDLING AND STORAGE

Safe Storage:

Store in a dry area below 90øF. Keep container closed when not in use.

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:

Red paste

Odor:

Sharp, Irritating

Boiling Point:

Not Applicable, Polymeric material

pH:

Does not apply

Solubility in Water: Not available  
 Specific Gravity 1.05  
 Volatile Organic Compound  
 (EPA Method 24) 4.8%

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

(continued)

Vapor Pressure: 10mm at 80øF  
 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

## 11. TOXICOLOGICAL INFORMATION

See Section 3.

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following 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  
 Class or Division: Unrestricted

UN or ID Number: None

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## 15. REGULATORY INFORMATION

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

## 16. OTHER INFORMATION

Estimated NFPA(R) Code:  
Health Hazard: 1  
Fire Hazard: 1  
Reactivity Hazard: 0  
Specific Hazard: Does not applyEstimated HMIS(R) Code:  
Health Hazard: 1\*  
Flammability Hazard: 1  
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: Denise Boyd  
Title: Health & Safety Manager  
Company: Permatex, Inc. 10 Columbus Blvd. Hartford, CT 06106  
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