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PERMATEX, INC.

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

11/17/99

MATERIAL SAFETY DATA SHEET

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Clear RTV Silicone Adhesive Sealant
80050

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Clear RTV Silicone Adhesive Sealant
Item No.:	80050
Part No.:	66BR
Product Type:	Silicone

2. COMPOSITION, INFORMATION ON INGREDIENTS

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

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.
Skin, ingestion, inhalation.

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 SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	IRR	NO	NO	NO
Ethyltriacetoxysilane	NUI	NO	N/A	NO
Methyltriacetoxysilane	No Data	NO	NO	NO
ACETIC ACID	NTD	NO	NO	NO
	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
NTD 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.

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5. FIRE FIGHTING MEASURES

Flash Point: More than 200°F Method: Tag Closed Cup
RecommendedExtinguishing 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.

7. HANDLING AND STORAGE

Safe Storage: Store in a dry area below 90°F. 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: Clear paste

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: 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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 (24hr.) Phone: 1-87-Permatex (877-376-2839)
 Revision Date: February 09, 1999 Revision: 0035

Odor: Sharp, Irritating
 Boiling Point: Not Applicable, Polymeric material
 pH: Does not apply
 Solubility in Water: Polymerized

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9. PHYSICAL AND CHEMICAL PROPERTIES

(continued)

Specific Gravity 1.01
 Volatile Organic Compound
 (EPA Method 24) 4.7%; 47.47 grams per liter
 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

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