

REC'D AUG 04 1998

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Permatex(R) Black RTV Silicone Adhesive Sealant
Item No.: 81173
Part No.: 16C
Product Type: RTV Silicone

5953

SLT00004

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Poly(dimethylsiloxane), dimethyl	63148-62-9	85-90
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	5-10
Ethyltriacetoxysilane	17689-77-9	1-5
Methyltriacetoxysilane	4253-34-3	1-5
CARBON BLACK	1333-86-4	0.1-1
ACETIC ACID	64-19-7	***

***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
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA resp. dust
CARBON BLACK	3.5 mg/m3 TWA	3.5 mg/m3 TWA	5ppm
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 more than 10,000 mg/kg.

Primary Routes of Entry: None known

Signs and Symptoms of Exposure: Acetic acid produced during cure irritates eyes, nose and throat.

Existing Conditions Aggravated by Exposure: Carbon black: respiratory disorders.
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, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO
Ethyltriacetoxysilane	No Data	NO	NO	NO
Methyltriacetoxysilane	No Data	NO	NO	NO
CARBON BLACK	AC4 RES	NO	2B	NO
ACETIC ACID	COR EYE GAS IMM IRR	NO	NO	NO

Abbreviations

N/A Not Applicable
AC4 ACGIH-Unclassifiable as human carc.
EYE Eyes
IMM Immune system
NUI Nuisance dust
2B Possibly carcinogenic to humans
COR Corrosive
GAS Gastrointestinal
IRR Irritant
RES Respiratory

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation: Remove to fresh air. Treat symptomatically.

MATERIAL SAFETY DATA SHEET

Page 2 of 3

Product Name: Permatex(R) Black RTV Silicone Adhesive Sealant
Item No.: 81173**5953** (continued)4. FIRST AID MEASURESSkin 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 MEASURESFlash Point: More than 200°F Method: Tag Closed Cup
Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting Procedures: Not available
Hazardous Products formed by Fire or Thermal Decomposition: Acetic acid, formaldehyde, silica fume.
Unusual Fire or Explosion Hazards: NoneExplosive Limits:
(% by volume in air) Lower Acetic acid: 4%
(% by volume in air) Upper Acetic acid: 19.9% at 200°F.6. ACCIDENTAL RELEASE MEASURESSteps 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 STORAGESafe Storage: Store in a dry area below 90°F. Keep container
closed when not in use.
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
Handling: Avoid eye or skin contact. Avoid breathing vapor.8. EXPOSURE CONTROLS, PERSONAL PROTECTIONEyes: 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 PROPERTIESAppearance: Black paste
Odor: Acetic Acid
Boiling Point: Not Applicable, polymeric material
pH: Does not apply
Solubility in Water: Polymerized
Specific Gravity: 1.07
Volatile Organic Compound (EPA Method 24): 4.5%; 48.15 g/l
Vapor Pressure: Less than 5mm at 70°F
Vapor Density: Not available
Evaporation Rate (Ether = 1): Not available10. STABILITY AND REACTIVITYStability: 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): None11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

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13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Cured rubber can be incinerated. Follow EPA 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

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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 Revision Date: April 15, 1997

Revision: 0032