

**PC® RTV 450 Silicone Adhesive**  
**Material Safety Data Sheet**

August 18, 2009

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**SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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Product Name: PC® RTV 450 Silicone Adhesive

Manufacturer/Supplier:  
Pittsburgh Corning Corporation  
800 Presque Isle Drive  
Pittsburgh, PA 15239

Information Number: 724-327-6100  
CHEMTREC: 800/424-9300

Generic Name: Silicone elastomer

Use: PC® RTV 450 Silicone Adhesive is a one part acetoxy cure, silicone adhesive/sealant formulated for use at high temperatures with FOAMGLAS® insulation..

General Comments: General information and emergency information available 8:00 AM – 5:00 PM Monday through Friday.

CHEMTREC telephone number is to be used only in the event of chemical transportation emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to technical service.

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**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

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<b>Ingredient</b>	<b>App. % by wt.</b>	<b>CAS #</b>
Dimethyl Siloxane, hydroxy terminated	> 60	70131-67-8
Silica, amorphous	10.0 – 30.0	7631-86-9
Methyltriacetoxysilane	1.0 – 5.0	4253-34-3
Ethyltriacetoxysilane	1.0 – 5.0	17689-77-9
Polydimethylsiloxane	1.0 – 5.0	63148-62-9

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**SECTION 3 – HAZARDOUS IDENTIFICATION**

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HAZARDOUS POLYMERIZATION: Will Not Occur

ROUTES OF EXPOSURE: Inhalation, Skin, Eyes and Ingestion.

IMMEDIATE EFFECTS:

INHALATION: Irritates respiratory passages very slightly.

SKIN CONTACT: May cause moderate irritation.

EYE CONTACT: Direct contact may cause moderate irritation.

INGESTION: Low ingestion hazard in normal use.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

ACUTE: None known.

CHRONIC: None known.

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**SECTION 4 – FIRST AID MEASURES**

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GENERAL ADVICE:

INHALATION: No first aid should be needed.

SKIN CONTACT: Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist..

EYE CONTACT: Immediately flush with water for 15 minutes. Get medical attention.

INGESTION: No first aid is needed.

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**SECTION 5 – FIRE FIGHTING MEASURES**

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**SUITABLE EXTINGUISHING MEDIA:** On large scale fires use dry chemical foam or water spray. On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers. Self contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT:	None.
SENSITIVITY TO STATIC DISCHARGE:	Stable.

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

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**PRECAUTIONS FOR PERSONNEL:** Use proper protection – safety glasses as a minimum Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended. Suitable Gloves: Silver Shield® 4H®. Inhalation: No respiratory protection should be needed. Suitable Respirator: None should be needed.

**ENVIRONMENTAL PRECAUTIONS:** Contain the spill to prevent spread into drains, sewers, water supplies, or soil. Collect material in open-head containers. Disposal should be made in accordance with Federal, State and Local regulations.

**PROCESS FOR CLEANING:** Observe all personal protection equipment recommendations described above. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state, and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state, and local laws and regulations are applicable.

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**SECTION 7 – HANDLING AND STORAGE**

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**HANDLING:** Use with adequate ventilation. Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact. See Section 6 for appropriate protective equipment.

**STORAGE:** Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture.

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**SECTION 8 – EXPOSURE RESTRICTIONS AND PERSONAL PROTECTION**

**EXPOSURE LIMITS**

Ingredient	App. % by wt.	TLV	NIOSH REL TWA	PEL	CAS #
Dimethyl Siloxane, hydroxy terminated	> 60	NE	UN	NE	70131-67-8
Silica, amorphous	10.0 – 30.0	10 mg/m <sup>3</sup> of total dust	UN	6 mg/m <sup>3</sup> respirable	7631-86-9
Methyltriacetoxysilane*	1.0 – 5.0	NE	UN	NE	4253-34-3
Ethyltriacetoxysilane*	1.0 – 5.0	NE	UN	NE	17689-77-9
Polydimethylsiloxane	1.0 – 5.0	NE	UN	NE	63148-62-9

\*COMMENTS: Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within the guidelines shown. OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

ADDITIONAL ADVICE: Avoid eye contact. Avoid skin contact. Use reasonable care.

**SECTION 9 – PHYSICAL PROPERTIES**

Freezing Point: °C (°F)	NA	Flash Point : °C (°F) TCC	NA
Boiling Point: °C (°F)	NA	Ignition Temperature: °C (°F)	UN
Vapor Pressure (mm Hg):	NA	Flammable Limits: LEL	NA
		UEL	NA
Vapor Density (Air = 1)	NA	Specific Gravity (H <sub>2</sub> O = 1):	1.032
Solubility in Water:	Insoluble	Percent Volatile By Volume (%)	NA
Appearance and Odor:	Aluminum colored paste, acetic acid odor	pH:	NA
		Evaporation Rate (BuAc=1)	NA

**SECTION 10 – STABILITY AND REACTIVITY**

STABILITY: Stable

CONDITIONS TO AVOID: Open Flame and contact with strong oxidizing agents

MATERIALS TO AVOID: None known

DECOMPOSITION PRODUCTS: Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Silicon dioxide. Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection. When heated to temperatures above 150°C (302°F) in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for Formaldehyde.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require added precautions.

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**SECTION 11 – TOXICOLOGICAL INFORMATION**

CAS #	INGREDIENT	DERMAL LD50	INHALATION LD50	ORAL LD50
70131-67-8	Dimethyl Siloxane, hydroxy terminated	NE	NE	NE
7631-86-9	Silica, amorphous	NE	NE	NE
4253-34-3	Methyltriacetoxysilane*	NE	NE	2060 mg/kg - Rat
17689-77-9	Ethyltriacetoxysilane*	NE	NE	NE
63148-62-9	Polydimethylsiloxane			

CAS #	INGREDIENT	CARCINOGENICITY		TERATOGENICITY	MUTAGENICITY
		ACGIH	IARC		
70131-67-8					
7631-86-9	Dimethyl Siloxane, hydroxy terminated	NE	NE	NE	NE
4253-34-3	Silica, amorphous	NE	NE	NE	NE
17689-77-9	Methyltriacetoxysilane*	NE	NE	NE	NE
63148-62-9	Ethyltriacetoxysilane*	NE	NE	NE	NE
70131-67-8	Polydimethylsiloxane	NE	NE	NE	NE

**SECTION 12 – ECOLOGICAL INFORMATION**

VOLATILE ORGANIC COMPOUNDS: 0 Grams Per Liter (g/l). 0 Pounds Per Gallon (lb/g).

**SECTION 13 – DISPOSAL CONSIDERATION**

DISPOSAL METHOD: RCRA Hazard Class (40 – CFR 261) Product is not a hazardous waste as received. State or local laws may impose additional regulatory requirements regarding disposal. Disposal should be made in accordance with Federal, State and Local regulations.

**SECTION 14 – TRANSPORT INFORMATION**

SHIPPING CLASS: DOT: Not Regulated  
 IMDG: Not Regulated  
 IATA: Not Regulated

**SECTION 15 – REGULATORY INFORMATION**

SARA SECTION 302: None  
 SARA (311,312) HAZARD CLASS: Acute  
 SARA (313) CHEMICALS: None  
 CERCLA: NA  
 CPSC CLASSIFICATION:

HMIS: FLAMMABILITY: 1 REACTIVITY: 0 HEALTH: 2

NFPA: FLAMMABILITY: 1 REACTIVITY: 0 HEALTH: 2

WHMIS CLASSIFICATION: CLASS D Division 2B CLASS B Division 2

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CALIFORNIA PROPOSITION 65:

- A. This product contains a chemical known to the State of CA to cause birth defects or other reproductive harm.
- B. This product contains a chemical known to the State of CA to cause cancer.
- C. This product contains a chemical known to the State of CA to cause cancer and birth defects or other reproductive harm.

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**SECTION 16 – OTHER INFORMATION**

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NA = not applicable  
NEGL = Negligible

NE = not established  
PROP. = Proprietary

UN = unavailable

CL = Ceiling Limit

“THE DATA INCLUDED HEREIN ARE PRESENTED IN ACCORDANCE WITH THE VARIOUS ENVIRONMENT, HEALTH AND SAFETY REGULATIONS. IT IS THE RESPONSIBILITY OF A RECIPIENT OF THIS DATA TO REMAIN CURRENTLY INFORMED ON CHEMICAL HAZARD INFORMATION, TO DESIGN AND UPDATE ITS INFORMED ON CHEMICAL HAZARD INFORMATION, TO DESIGN AND UPDATE ITS OWN PROGRAM AND TO COMPLY WITH ALL NATIONAL, FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS APPLICABLE TO SAFETY, OCCUPATIONAL HEALTH, RIGHT-TO-KNOW AND ENVIRONMENTAL PROTECTION.”

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