
SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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 Rubber

NFPA HAZARD CLASS: Health: 2 Fire: 1 Reactivity: 0

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 ET 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.

NA = Not Applicable or Not Available

NE = not established

SECTION 2 – HAZARDOUS INGREDIENTS

Ingredient	% by weight	EXPOSURE LIMITS		CAS number
		TLV	PEL	
Dimethyl Siloxane, hydroxy terminated	< 60	NE	NE	70131-67-8
Silica, amorphous**	10.0 – 30.0	10 mg/m ³ of total dust	6 mg/m ³ respirable	7631-86-9
Methyltriacetoxysilane*	1.0 – 5.0	NE	NE	4253-34-3
Ethyltriacetoxysilane – See acetic acid comments	1.0 – 5.0	NE	NE	17689-77-9
Polydimethylsiloxane,	1.0 – 5.0	NE	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.

**The main hazard of Silica is dust inhalation. Because of its incorporation into the adhesive, exposure by inhalation is unlikely.

Section 3 – HAZARDS IDENTIFICATION

ACUTE EFFECTS

Eyes: Direct contact may cause moderate with irritation

Skin: May cause moderate with irritation

Inhalation: Irritates respiratory passages very slightly.

Oral: Low ingestion hazard in normal use

REPEATED EXPOSURE EFFECTS

Skin: None known
Inhalation: None known
Oral: None known

SPECIAL HAZARDS

This material contains the following components with the special hazards listed below.

Carcinogens: None known
Teratogens: None known
Mutagens: None known
Reproductive Toxins: None known
Sensitizers: None known

Comments: When heated to temperatures above 150°C 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.

Section 4 – First Aid Measures

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

Skin: 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.

Inhalation: Remove to fresh air.

Oral: No first aid should be needed.

Comments: Treat according to person's condition and specifics of exposure.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point (Closed cup): NA – solid

Autoignition Temperature: Not determined

Flammability Limits in Air: Not determined

Extinguishing Media: Carbon dioxide (CO₂). Water spray. Dry chemical. Foam. Water can be used to cool fire exposed containers.

Unsuitable Extinguishing Media: None.

Fire Fighting Procedure: Self contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals. If large amount is involved, evacuate area.

Unusual Fire Hazards: None

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Hazardous Decomposition Products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Silicone dioxide, carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Containment/Clean-up: Disposal of collected product residues, and clean up materials may be governmentally regulated. Local, state, and federal reporting requirements may apply to spills or releases of this material into the environment. See applicable regulatory compliance information in Section 15. Observe all applicable local, state, and federal waste management regulations. Scrape up and contain for salvage or disposal. Observe all personal protection equipment recommendations described in Section 5 and 8.

SECTION 7 – HANDLING AND STORAGE

Handling: Use with adequate ventilation. Product evolves acetic acid (HOAc) when exposed to water. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact.

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

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Local Exhaust: Recommended
General Ventilation: Recommended

Personal Protective Equipment for Routine Handling

Eyes: Use proper protective – safety glasses as a minimum.

Skin: Washing at mealtime and end of shift is adequate. 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: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial hygiene personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator: Not normally needed. Organic vapor/dust/mist type if used.

Personal Protective Equipment for Spills

Eye: Use proper protective – safety glasses as a minimum.

Skin: Washing at mealtime and end of shift is adequate.

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Inhalation/Suitable Respirator: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial hygiene personnel can assist in judging the adequacy of existing engineering controls.

Precautionary Measures: Avoid eye contact. Avoid breathing vapor. Keep container closed. Use reasonable care.

Comments: Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines (see section 2) or use respiratory protection.

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Aluminum colored paste	Color:	Aluminum
Odor:	acetic acid	Odor threshold:	NE
Boiling Point (°F.):	NA	Specific Gravity @ 25C (H₂O = 1):	1.03
Vapor Pressure (MM Hg):	NA	Percent Volatile By Weight (%):	NA
Vapor Density (Air = 1)	NA	pH:	NA
Solubility in Water:	insoluble	Freezing/melting range:	NA
Evaporation Rate:	NA		

SECTION 10 – STABILITY AND REACTIVITY DATA

Chemical Stability: Stable

Hazardous Polymerization: Hazardous polymerization will not occur.

Conditions to Avoid: None.

Materials to Avoid: Oxidizing material can cause a reaction.

Comments: Water, moisture, or humid air can cause hazardous vapors to form as described in Section 2.

SECTION 11 – TOXICOLOGICAL INFORMATION

Optional Section: No known applicable information.

SECTION 12 – ECOLOGICAL INFORMATION

Optional Section: Complete information not yet available.

SECTION 13 – DISPOSAL INFORMATION

RCRA Hazard Class (40CFR 261)

When a decision is made to discard this material, as received, it is classified as a hazardous material? N

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Federal Hazardous Waste Code: NA

Characteristic Waste Code: Ignitable: NA
Corrosive: NA
Reactive: NA

TCLP: NA

State or local laws may impose additional regulatory requirements regarding disposal.

NA = Not applicable

SECTION 14 – TRANSPORT INFORMATION

UNITED STATES DEPARTMENT OF TRANSPORTATION (DOT)

DOT Information (49CFR 172.101)

Proper Shipping Name: Not applicable
Hazard Technical Name: Not applicable
Hazard Class: Not applicable
UN/NA Number: Not applicable
Packing Group: Not applicable

SECTION 15 – REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200.

TSCA Status: All chemical substances found in this product comply with the Toxic Substance Control Act inventory reporting requirements.

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances: None

Section 304 CERCLA Hazardous Substances: None

Section 312 Hazard Class:

Acute: Yes
Chronic: No
Fire: No
Pressure: No
Reactive: No

Section 313 Toxic chemicals: None present or non present in required quantities.

Supplemental State Compliance Information

California

Warning: This product contains the following chemicals listed by the state of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer. None known.

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) reproductive harm. None known.

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State	CAS #	Wt %	Component name
Massachusetts	7631-86-9	10.0 – 30.0	Silica, amorphous
New Jersey	70131-67-8	<60.0	Dimethyl siloxane, hydroxy-terminated
	7631-86-9	10.0 – 30.0	Silica, amorphous
	4253-34-3	1.0 – 5.0	Methyltriacetoxysilane
	17689-77-9	1.0 – 5.0	Etyltriacetoxysilane
	63148-62-9	1.0 – 5.0	Polydimethylsiloxane
Pennsylvania	70131-67-8	<60.0	Dimethyl siloxane, hydroxy-terminated
	7631-86-9	10.0 – 30.0	Silica, amorphous

SECTION 16 – ADDITIONAL INFORMATION

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

ABBREVIATIONS:

ACGIH = American Conference of Governmental Industrial Hygienists HMIS = Hazardous Material Information System
IARC = International Agency for Research on Cancer NFPA = National Fire Protection Association
NTP = National Toxicology Program OSHA = Occupational Safety and Health Administration

“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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