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**SECTION 1 – IDENTIFICATION**

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Product Name: PC<sup>®</sup> 88 adhesive Component 1

Manufacturer/Supplier:

Pittsburgh Corning Corporation  
800 Presque Isle Drive  
Pittsburgh, PA 15239

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

Generic Name: Solvent based adhesive/sealant

Use: PC<sup>®</sup> 88 Adhesive Component 1 is part 1 of a two part adhesive used to bond FOAMGLAS<sup>®</sup> insulation to itself or to other porous or nonporous substrates.

Chemical Family: Mixture

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 – HAZARD(S) IDENTIFICATION**

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HAZARD CLASSIFICATION:

Potential Irritant	Category 1B
Potential Carcinogen	Category 3
Flammable Liquid	Category 4
Acute toxicity, oral	Category 4
Acute toxicity, dermal	Category 4
Acute toxicity, inhalation	Category 4
Germ cell mutagenicity	Category 1B



ENVIRONMENTAL HAZARDS:

Hazardous to the aquatic environment, Category 3  
long-term aquatic hazard

SIGNAL WORD: **DANGER**

HAZARD STATEMENT: H226 Flammable liquid and vapor  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled  
H340 May cause genetic defects.  
H350 May cause cancer  
H412 Harmful to aquatic life with long lasting effects.

HAZARDOUS POLYMERIZATION: Will Not Occur

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

IMMEDIATE EFFECTS:

**INHALATION:** No significant signs or symptoms indicate of any adverse health hazard are expected to occur at standard conditions due to the low volatility of this material.

**SKIN CONTACT:** Prolonged or repeated contact may cause skin irritation.

**EYE CONTACT:** Irritating, but will not permanently injure eye tissue.

**INGESTION:** If swallowed, this product may cause vomiting, nausea and diarrhea and maybe harmful if swallowed in large amounts. Not a likely route of entry.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

**ACUTE:** None.

**CHRONIC:** Prolonged contact may cause dermatitis. May cause cancer. May cause cancer by inhalation. May cause heritable genetic damage. Occupational exposure to the substance or mixture may cause adverse health effects.

**Carcinogenicity –** Components in this product are listed as a carcinogen by NTP, IARC, ACGIH or OSHA:

COMPONENT	CAS #
Asphalt	8052-42-4
Refractory Ceramic Fibers	142844-00-6

98.3% of the mixture consists of component(s) of unknown acute oral toxicity. 98.3% of the mixture consists of component(&) of unknown long-term hazards to the aquatic environment.

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	App. % by wt.	CAS #	REACH REG. #	INDEX #
Coal, Bituminous	35-45	NA	-	
Distillates, Petroleum, Hydro-treated Heavy Naphthenic	20 - <30	64742-52-5	-	649-465-000-7
Petroleum asphalt	10- <20	8052-42-4	-	
Solvent naphtha (petroleum), light aliph.	5- <10	64742-89-8	-	649-267-00-0
Disodium Metasilicate	<1	6834-92-0	-	014-010-00-8
Refractory Ceramic Fibers	<1	142844-00-6	-	650-017-00-8
Other components below reportable levels:	10 - < 20			

**SECTION 4 – FIRST AID MEASURES**

**GENERAL ADVICE:** Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, end take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood

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	P308 + P313	IF exposed or concerned: Get medical advice/attention. If you feel unwell seek medical advice. (Show the label when possible.)
INHALATION:	P304 + P340 P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
SKIN CONTACT:	P303 + P361 + P353 P362 + P364	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists. Take off contaminated clothing and wash it before reuse.
EYE CONTACT:		Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if present and easy to do. Consult a physician if ill effects or irritation occurs.
INGESTION:	P301 + P312 P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

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## **SECTION 5 – FIRE FIGHTING MEASURES**

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SUITABLE EXTINGUISHING MEDIA: Foam, CO<sub>2</sub>, or Dry Chemical. If entering a confined area, use self-contained breathing apparatus.

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: Stable

SENSITIVITY TO STATIC DISCHARGE: Stable

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide, Carbon Dioxide and Oxides of Nitrogen.

SPECIAL FIRE FIGHTING MEASURES: P370 + P378 In case of fire: Use appropriate media to extinguish. Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters.

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## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

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PRECAUTIONS FOR PERSONNEL: Avoid direct contact with product. Keep unnecessary personnel away. Wear protective clothing. Including gloves, and protective eyewear. Refer to recommendations in section 8. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling and before eating or drinking. No special ventilation required.

ENVIRONMENTAL PRECAUTIONS: P273 Avoid release to the environment.

PROCESS FOR CLEANING: Absorb with inert material. Remove sources of ignition. Scoop material with non-sparking tools.

REGULATORY REQUIREMENTS: Follow applicable OSHA regulations (29 CFR 1910.120).

**SECTION 7 – HANDLING AND STORAGE**

**HANDLING:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapors.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**STORAGE:** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

**EXPOSURE LIMITS**

INGREDIENT	APP. % BY WT.	TLV	NIOSH REL TWA	PEL	CAS #
Coal, Bituminous*	35-45	2.0 mg/m <sup>3</sup>	2.4 mg/m <sup>3</sup>	2.0 mg/m <sup>3</sup>	1333-86-4
Hydro treated heavy naphthenic distillate*	20 - <30	5.0 mg/m <sup>3</sup>	5.0 mg/m <sup>3</sup>	5.0 mg/m <sup>3</sup>	64742-52-5
Petroleum asphalt*	10- <20	0.5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	8052-42-4
Solvent naphtha (petroleum), light aliph.	5- <10	300 ppm	300 ppm	300 ppm	64742-89-8
Disodium Metasilicate	<1				6834-92-0
Ceramic fiber <sup>1</sup>	<1	2000000 fibers/m <sup>3</sup> (STEL)	500000 fibers/m <sup>3</sup>	NE	142844-00-6

Other components below reportable levels

\* Respirable/inhalable fraction

<sup>1</sup> inextricably bound in asphalt matrix and won't be released for inhalation under normal application use.

**EXPOSURE GUIDELINES:** See Above.

**ENGINEERING CONTROLS:** No specific controls are needed.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYE PROTECTION:** Wear safety glasses or goggles to avoid eye contact.

**SKIN PROTECTION:** Wear impervious gloves such as vinyl to minimize contact with skin. Wear normal protective work clothing with long sleeved shirt.

**RESPIRATORY PROTECTION:** Not required.

**ENVIRONMENTAL EXPOSURE CONTROL:** Avoid discharge to drains, sewers and natural water supply.

**WORK/HYGIENIC PRACTICES:** Avoid contact with eyes and skin. Wash thoroughly after handling and before eating or drinking.

**SECTION 9 – PHYSICAL PROPERTIES**

Appearance:	Black viscous liquid	Flash Point : °C (°F) TCC	38.3 (101.0)
Odor:	Hydrocarbon type odor	Ignition Temperature: °C (°F)	UN
Odor Threshold:	NE	Evaporation Rate (BuAC=1)	UN
pH	NA	Flammability:	Flammable Liquid (Category 3)
Melting Point/Freezing Point: °C (°F)	UN	Flammable Limits: LEL UEL	NE NE
Boiling Point: °C (°F)	>119 (246)	Auto-ignition temperature	500 °F (260 °C) estimated
Solubility in Water:	UN	Vapor Pressure: (MM Hg): pH:	26 @ 38°C (100°F)
Partition Coefficient: n-octanol/water:	NE	Vapor Density: (Air = 1)	3.8
Decomposition Temperature	NE	Specific Gravity: (H <sub>2</sub> O = 1):	1.048
Viscosity	UN	Density: lbs./gal (Calculated)	8.7
VOC: g/l (lbs./gal)	64 (0.53)	Percent Volatile By Volume: (%)	5.5

**SECTION 10 – STABILITY AND REACTIVITY**

REACTIVITY. The product is stable and non-reactive under normal conditions of use, storage and transport.

STABILITY: Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: No dangerous reaction known under conditions of normal use.

CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

MATERIALS TO AVOID: None known

DECOMPOSITION PRODUCTS: No hazardous decomposition products are known. Thermal decomposition may produce toxic fumes of CO and /or CO<sub>2</sub>.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

CAS #	INGREDIENT	DERMAL LD50	INHALATION LD50	ORAL LD50
1333-86-4	Hydro Treated Heavy Naphthenic Distillate*	NE	NE	NE
64742-52-5	Hydroxyl Terminated Polybutadiene	>3g/kg	NE	>5g/kg (rat)
8052-42-4	Petroleum Asphalt*	NE	NE	NE
64742-89-8	Coal, Bituminous	>4,000 mg/kg (rat)	3,400 mg/kg (rat)	>8,000 mg/kg (rat) 1280 mg/kg (rat)
6834-92-0	Hydrocarbon Solvent	NE	NE	2400 mg/kg (mouse)
142844-00-6	Ceramic Fiber <sup>1</sup>	NE	NE	NE

CAS #	INGREDIENT	CARCINOGENICITY		TERATOGENICITY	MUTAGENICITY
		ACGIH	IARC		
64742-52-5	Hydro Treated Heavy Naphthenic Distillate*	NE	NE	NE	NE
69102-90-5	Hydroxyl Terminated Polybutadiene	NE	NE	NE	NE
8052-42-4	Petroleum Asphalt*	NE	2B	NE	NE
NA	Coal, Bituminous	NE	NE	NE	NE
64742-89-8	Hydrocarbon Solvent	NE	NE	NE	NE
142844-00-6	Ceramic Fiber <sup>1</sup>	NE	2B	NE	NE

\* As Fumes

<sup>1</sup> inextricably bound in asphalt matrix and won't be released for inhalation under normal application use.

**SECTION 12 – ECOLOGICAL INFORMATION**

P273 Avoid release to the environment

ECOTOXICITY: Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Product <sup>2</sup>			Species	Test Results
PC <sup>®</sup> 88 adhesive Component 1 (CAS Mixture)				
<b>Aquatic</b>				
Crustacea	EC50		Daphnia	1935 mg/l, 48 hours estimated
<b>Components</b>				
Disodium Metasilicate (CAS 6834-92-0)				
<b>Aquatic</b>				
Crustacea	EC50		Water flea (Ceriodaphnia dubia)	0.28 - 0.57 mg/l, 48 hours
Fish	LC50		Western mosquitofish (Gambusia affinis)	1800 mg/l, 96 hours

<sup>2</sup>Estimates for product may be based on additional component data not shown.

PERSISTENCE AND DEGRADABILITY: No data is available on the degradability of this product.  
 BIOACCUMULATIVE POTENTIAL: Not available.  
 MOBILITY IN SOIL: No data available.  
 OTHER ADVERSE EFFECTS: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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**SECTION 13 – DISPOSAL CONSIDERATIONS**

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**DISPOSAL METHOD:** P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.  
**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

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**SECTION 14 – TRANSPORT INFORMATION**

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**SPECIAL SHIPPING INFORMATION:** None

**DOT SHIPPING CLASS:** Not regulated as dangerous goods. Reclassified as non-hazardous for DOT Transportation per 49 CFR 173.150 (f).

**IATA/IMDG** COATING SOLUTION, Class 3, UN1139, PG III.  
**Passenger and cargo aircraft** Allowed  
**Cargo aircraft only** Allowed

**DOT SHIPPING LABEL:** Not Required

**ADR; IATA; IMDG; RID SHIPPING LABEL:**



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**SECTION 15 – REGULATORY INFORMATION**

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**US Regulatory Information**

OSHA 29 CFR 1910-1200

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.

TSCA

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Refractory Ceramic Fibers 0.1 % One Time Export  
(CAS 142844-00-6) Notification only.

SARA Title III:

SARA SECTION 302: Not Listed

SARA SECTION 304: Not Regulated

SARA (311,312) HAZARD CLASS: Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard – Yes  
Pressure Hazard – No  
Reactivity Hazard - No

SARA (311.312) CHEMICALS: No

SARA (313) TRI reporting) Not Regulated

CERCLA:

Listed

Asphalt (CAS 8052-42-4)

RCRA:

Refer to section 13

CPSC CLASSIFICATION:

NA

HMIS: FLAMMABILITY: 3 REACTIVITY: 0 HEALTH: 2

NFPA: FLAMMABILITY: 3 REACTIVITY: 0 HEALTH: 2

WHMIS CLASSIFICATION: CLASS D DIVISION 2B CLASS B DIVISION 2

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.

**US state regulations:**

**US. Massachusetts RTK - Substance List**

Asphalt (CAS 8052-42-4)

Distillates, Petroleum, Hydro-treated Heavy Naphthenic (CAS 64742-52-5)

**US. New Jersey Worker and Community Right-to-Know Act**

Asphalt (CAS 8052-42-4)

Refractory Ceramic Fibers (CAS 142844-00-6)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Asphalt (CAS 8052-42-4)

**US. Rhode Island RTK**

Not regulated.



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**US. California Proposition 65**

Refractory Ceramic Fiber and Quartz are listed due to their respirable nature in powder form. As supplied and applied the refractory ceramic fiber and quartz are bound within the product matrix and are not expected to be in a respirable form. Fumes of asphalt are listed by California Prop 65. As supplied and applied this product will not exhibit asphalt fumes.

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Asphalt (CAS 8052-42-4) Listed: January 1, 1990

Quartz (CAS 14808-60-7) Listed: October 1, 1988

Refractory Ceramic Fibers (CAS 142844-00-6) Listed: July 1, 1990

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**SECTION 16 – OTHER INFORMATION**

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Prepared in accordance with 29 CFR 1910.1200

This Product has been classified in accordance with the hazard criteria of the Controlled Products

NA = not applicable

NE = not established

UN = unavailable

CL = Ceiling Limit

NEGL = Negligible

PROP. = Proprietary

“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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