

PITTSEAL® 444N SEALANT
Material Safety Data Sheet

October 14, 2009

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PITTSEAL® 444N sealant

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

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

Generic Name: solvent based sealant

Use: PITTSEAL® 444N sealant is a specially formulated butyl sealant used for sealing joints in FOAMGLAS® insulation systems, and to seal protrusions and metal jacket laps.

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 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Gray. Paste. No serious effects anticipated under normal conditions of use. Vapor may irritate respiratory tract. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/Routes of Entry

Inhalation: No serious effects anticipated under normal conditions of use. Vapor may irritate respiratory tract.
Eyes: Slightly irritating.
Ingestion: May cause irritation to the mouth, throat and stomach. May cause gastrointestinal irritation, nausea, and vomiting.
Skin: Irritant effect may be delayed.

Aggravated Medical Conditions:

Pre-existing eye, skin, liver, kidney, and respiratory disorders may be aggravated by exposure.

Chronic Health Effects:

Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. Prolonged and repeated exposure to excessive airborne concentrations of talc can result in scarring of the lungs (pneumoconiosis) or the covering of the lungs (pleural thickening). Fillers are encapsulated and not expected to be released from product under normal conditions of use. Prolonged or repeated exposure to mineral spirits (petroleum naphtha or Stoddard solvent) may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, and adverse liver, kidney, and lung effects.

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SECTION 3 – COMPOSITION INFORMATION

Ingredient	CAS number	% by weight
Kaolin (Clay)	1332-58-7	30-60
Calcium Carbonate ¹ (Limestone)	1317-65-3	15-40
Polybutene	9003-29-6	7-13
Talc (Hydrous Magnesium Silicate) (Mg ₃ H ₂) (SiO ₃) ₄	14807-96-6	7-13
White Mineral oil*	8042-47-5	5-10
Residual Oils (petroleum)	64742-62-7	5-10
Stoddard solvent (Mineral Spirits)	8052-41-3	3-7
Titanium Dioxide	13463-67-7	3-7
Crystalline Silica(Quartz) Sand ^{1*}	14808-60-7	1.0-5.0
Kerosene (Petroleum)	8008-20-6	1-5
Petroleum Distillates	64742-47-8	< 1

1= inextricably bound in mastic matrix and won't be released for inhalation under normal application use.

*Identified as probably carcinogen to humans by IARC.

**See OSHA 1910.1000 Table Z3

RF = respirable fraction

ND = nuisance dust

TD = total dust

SECTION 4 – FIRST AID MEASURES

Inhalation: Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention immediately.

Eye Contact: Flush immediately with running water for 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately.

Skin: Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

Ingestion: Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: Not Available

Lower explosion limit : NA

Upper Explosive Limit/Lower Explosive Limit: NA.

Autoignition Temperature: NA.

Appropriate Extinguishers: If water is ineffective, use carbon dioxide, dry chemical or foam.

Hazardous combustion products: Smoke, fumes. Carbon monoxide and carbon dioxide can form.

Protective equipment for firefighters: Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

Fire and Explosion Hazards: This product not expected to ignite under normal conditions of use.

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Scrape up and transfer to appropriate container for disposal.

SECTION 7 – HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Handle in compliance with common hygienic practices. Clean hands thoroughly after handling. Do not use in confined or poorly ventilated areas. Store in sealed containers in a cool, dry, ventilated warehouse location..

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Wear suitable safety eyewear.

Skin Protection: Protect hands with impervious rubber gloves and wear typical full cover clothing. Prevent contact with skin, shoes, and clothing..

Respiratory Protection: Not required under normal conditions of use. Wear appropriate, properly fitted NIOSH/MSHA approved organic vapor or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.

Hands: Use suitable impervious rubber or vinyl gloves and protective apparel to reduce exposure.

Engineering: Use local exhaust when the general ventilation is not sufficient to keep the airborne contaminant concentration below the exposure limit shown below.

Chemical Name	CAS Number	Regulation	Limit	Form
Clay	1332-58-7	ACGIH	2 mg/m ³	Respirable
		OSHA PEL:	15 mg/m ³	Total dust.
		OSHA PEL:	5 mg/m ³	Respirable
		OSHA TWA:	15 mg/m ³	Total dust.
		OSHA TWA:	5 mg/m ³	Respirable fraction.
Calcium Carbonate (Limestone)	1317-65-3	OSHA PEL:	5 mg/m ³	Respirable
		OSHA PEL:	15 mg/m ³	Total dust.
		ACGIH	3 mg/m ³	Respirable
		ACGIH	10 mg/m ³	Inhalable
		OSHA TWA:	15 mg/m ³	Total dust.
		OSHA TWA:	5 mg/m ³	Respirable fraction.
Talc	14807-96-6	ACGIH	2 mg/m ³	Respirable
		OSHA TWA:	0.1 mg/m ³	Respirable.
		OSHA TWA:	0.3 mg/m ³	Total dust.
		OSHA PEL:	15 mg/m ³	Total dust.
		OSHA PEL:	5 mg/m ³	Respirable fraction.
Stoddard solvent (Mineral Spirits)	8052-41-3	ACGIH	100 ppm	
		OSHA PEL:	2,900 mg/m ³	
Titanium dioxide	13463-67-7	ACGIH	10 mg/m ³	
		OSHA PEL:	15 mg/m ³	Total dust.
		OSHA TWA:	15 mg/m ³	Total dust.
Titanium dioxide cont.	13463-67-7	OSHA TWA:	5 mg/m ³	Respirable

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Chemical Name	CAS Number	Regulation	Limit	Form
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	OSHA TWA:	0.1 mg/m ³	Respirable.
		OSHA TWA:	0.3 mg/m ³	Total dust.
		OSHA PEL:	15 mg/m ³	Total dust.
		OSHA PEL:	5 mg/m ³	Respirable
		ACGIH TWA:	0.025 mg/m ³	Respirable
Kerosene	8008-20-6	ACGIH TWA hydrocarbon	200mg/m ³ 33	fraction. Non-aerosols total

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: viscous liquid/mastic (paste)	Color: gray
Odor: petroleum solvent	Odor threshold: NE
Boiling Point (°F.): 400°C (752°F)	Specific Gravity (H ₂ O = 1): 1.56
Vapor Pressure (MM Hg): NA	Percent Volatile By Weight (%) 6
Vapor Density (Air = 1) >1	pH: NA
Solubility in Water: Negligible	Freezing/melting range: NA

SECTION 10 – STABILITY AND REACTIVITY DATA

Substances to avoid: Oxidizing agents.
 Stability: Material is stable under normal storage, handling, and use
 Hazardous polymerization: Will not occur under normal conditions

SECTION 11 – TOXICOLOGICAL INFORMATION

No data available

SECTION 12 – ECOLOGICAL INFORMATION

No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Method: Not regulated under RCRA. Incinerate at an EPA approved facility or dispose of waste in compliance with state and local regulations.

SECTION 14 – TRANSPORT INFORMATION

UNITED STATES DEPARTMENT OF TRANSPORTATION (DOT)

DOT Proper Shipping Name: NOT REGULATED

SECTION 15 – REGULATORY INFORMATION

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Toxic Substances Control Act (TSCA): All components are listed or exempt from the TSCA inventory. One or more components are listed on the NDSL

U.S. Federal Regulations:

SARA 313 Components: None present or none present in regulated quantities.

SARA 311/312 Hazards: Acute Health Hazard
Chronic Health Hazard

OSHA Hazardous Components:

Clay	1332-58-7
Calcium Carbonate (Limestone)	1317-65-3
Talc	14807-96-6
Stoddard solvent (Mineral Spirits)	8052-41-3
Titanium dioxide	13463-67-7
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
Kerosene	8008-20-6
Petroleum distillates	64742-47-8

OSHA Status: Considered hazardous based on the following criteria: Irritant, Carcinogen

OSHA Flammability Not Regulated

Regulatory VOC (less water and exempt solvent) 98 g/l

VOC Method 310: 5%

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:

Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
Kerosene	8008-20-6
Petroleum distillates	64742-47-8

U.S. State Regulations:

MASS RTK Components:	Clay	1332-58-7
	Calcium Carbonate (Limestone)	1317-65-3
	Talc	14807-96-6
	Stoddard solvent (Mineral Spirits)	8052-41-3
	Titanium dioxide	13463-67-7
	Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
	Kerosene	8008-20-6

Penn RTK Components:

Clay	1332-58-7
Calcium Carbonate (Limestone)	1317-65-3
Polybutene	9003-29-6
Talc	14807-96-6
White mineral oil	8042-47-5
Residual oils (petroleum)	64742-62-7
Stoddard solvent (Mineral Spirits)	8052-41-3
Titanium dioxide	13463-67-7
Crystalline Silica (Quartz)/Silica Sand	14808-60-7

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	Kerosene	8008-20-6
NJ RTK Components:	Clay	1332-58-7
	Calcium Carbonate (Limestone)	1317-65-3
	Polybutene	9003-29-6
	Talc	14807-96-6
	White mineral oil	8042-47-5
	Stoddard solvent (Mineral Spirits)	8052-41-3
	Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
	Kerosene	8008-20-6
	Petroleum distillates	64742-47-8

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:

14808-60-7	Crystalline Silica (Quartz)/Silica Sand
1333-86-4	Carbon Black
100-41-4	Ethylbenzene
108-88-3	Toluene

WHMIS IDENTIFICATION/OTHER INTERNATIONAL REGULATIONS
D2B

SECTION 16 – ADDITIONAL INFORMATION

HMIS Rating:

Health	2
Flammability	1
Reactivity	0
PPE	

0= Minimum
1 = Slight
2 = Moderate
3 = Serious 4 = Severe

For INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

ABBREVIATIONS:

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| 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 |
| CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act | EPA - Environmental Protection Agency |
| DOT - Department of Transportation DSL - Domestic Substance List | NDSL - Non-Domestic Substance List |
| MSHA - Mine Safety Health Administration | PEL - Permissible Exposure Limit |
| NIOSH - National Institute for Occupational Safety and Health | SARA - Superfund Amendments and Reauthorization Act |
| RCRA - Resource Conservation and Recovery Act RTK - Right To Know | TLV - Threshold Limit Value |
| STEL - Short Term Exposure Limit | TWA - Time Weighted Average |
| TSCA - Toxic Substances Control Act | VOC - Volatile Organic Compound |
| V - Volume | |
| WHMIS - Workplace Hazardous Materials Information System | |

While the information and recommendations set forth herein are believed to be accurate, Pittsburgh Corning makes no warranty with respect thereto, and disclaims all liability from reliance thereon. IT IS THE RESPONSIBILITY OF A RECIPIENT OF THIS DATA TO REMAIN CURRENTLY 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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