



# Material Safety Data Sheet

Material Name: PinkPlus® Fiberglass Insulation (R-13)

MSDS No.: 15-MSD-24894-01

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

**Product Name(s):** PinkPlus Fiberglass Insulation (R-13)

**Manufacture:**

Owens Corning  
One Owens Corning Parkway, World Headquarters  
Attn. Product Stewardship  
Toledo, OH 43659, USA

**Emergency Contacts:**

Emergencies ONLY (after 5pm ET and weekends): 1-419-248-5330,  
CHEMTREC (24 hours everyday): 1-800-424-9300,  
CANUTEC (Canada - 24 hours everyday): 1-613-996-6666.

**Health and Technical Contacts:**

Health Issues Information (8am-5pm ET): 1-419-248-8234,  
Technical Product Information (8am-5pm ET): 1-800-GET-PINK.  
1-740-321-7069; or 1-419-248-6476

## \*\*\* Section 2 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent by Wt.
65997-17-3	Fibrous glass (Fiber glass wool)	90-95
Not Available	Thermoplastic rubber mixture	<5
25087-34-7	Polyethylene Film	<5

**Component Related Regulatory Information**

This product may be regulated, have exposure limits or other information identified as the following: Glass wool fiber, Nuisance particulates, Fibrous glass, Glass filaments.

**Component Information/Information on Non-Hazardous Components**

**Note:** See Section 8 of MSDS for exposure limit data for these ingredients. Refer to Section 10 for thermal decomposition products generated in hot end-use application.

## \*\*\* Section 3 - Hazards Identification \*\*\*

**Appearance and Odor:** Pink fibrous glass with pink polyethylene film. No odor.

### Emergency Overview

Dusts and fibers from this product may cause mechanical irritation to the eyes, skin, and respiratory tract. Irritating fumes and gases may be released upon thermal processing or during combustion.

**Potential Health Effects**

**Inhalation:**

Dusts and fibers from this product may cause mechanical irritation of the nose, throat, and respiratory tract.

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Fiber glass wool is a possible cancer hazard. Use of these products has not been shown to cause cancer in humans. Fiber glass wool caused cancer in animals through unnatural routes of exposure (surgical implantation), but has not produced cancer by inhalation.

## Skin Contact:

Dusts and fibers from this product may cause temporary mechanical irritation to the skin.

## Eye Contact:

Dusts and fibers from this product may cause temporary mechanical irritation to the eyes.

## Ingestion:

Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances.

## Medical Conditions Aggravated by Exposure:

Chronic respiratory or skin conditions may temporarily worsen from exposure to these products.

## \*\*\* Section 4 - First Aid Measures \*\*\*

### Inhalation:

If inhaled, remove the affected person to fresh air. If irritation persists get medical attention.

### Skin Contact:

For skin contact, wash with mild soap and running water. Use a wash cloth to help remove fibers. To avoid further irritation, do not rub or scratch affected areas. Rubbing or scratching may force fibers into the skin. If irritation persists, get medical attention.

Never use compressed air to remove fibers from the skin. If fibers are seen penetrating from the skin, the fibers can be removed by applying and removing adhesive tape so that the fibers adhere to the tape and are pulled out of the skin.

### Eye Contact:

Immediately flush eyes with plenty of running water for at least 15 minutes. If irritation persists get medical attention.

### Ingestion:

Ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that intestinal blockage does not occur. Do not induce vomiting unless directed to do so by medical personnel.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

**Flash Point:** None  
**Upper Flammability Limit:** Not applicable  
**Auto Ignition Temp:** Not available

**Flash Point Method:** Not applicable  
**Lower Flammability Limit:** Not applicable

### Extinguishing Media:

Dry chemical, foam, carbon dioxide, water fog.

### Unusual Fire & Explosion Hazards:

Irritating and toxic gases or fumes may be released during a fire.

### Fire-Fighting Instructions:

Use self-contained breathing apparatus (SCBA) and full bunker turnout gear in a sustained fire. Wear protective clothing ensemble as defined in NFPA 1500 (1997, or as updated).

### Hazardous Combustion Products:

Carbon monoxide, carbon dioxide, olefinic and paraffinic compounds, oxides of nitrogen, undetermined hydrocarbons and trace amounts of organic acids, ketones, aldehydes, and alcohols may form.

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Containment Procedures:

This material will settle out of the air. This material will sink and disperse along the bottom of waterways and ponds.

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## Clean-Up Procedures:

Scoop up material and put into a suitable container for disposal as a non-hazardous waste.

## Response Procedures:

Isolate area. Keep unnecessary personnel away.

## Special Procedures:

None.

## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling Procedures:

No special procedures are required for this material.

Keep product in its packaging, as long as practicable to minimize potential dust generation. Keep work areas clean. Avoid unnecessary handling of scrap materials by placing them in waste disposal containers and equipment, kept as to close working areas as possible, to prevent release of fibers and dust.

Avoid inhaling dusts or vapors produced during thermal processing. Avoid eye and excessive skin contact. Use only with adequate ventilation. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Special care must be taken to avoid buildup of dusts.

**Storage Temperature:** Not applicable.

**Storage Pressure:** Not applicable.

### Storage Procedures:

No special procedures are required for this material.

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### Exposure Guidelines:

#### A: General Product Information

Follow all applicable exposure limits.

#### B: Component Exposure Limits

ACGIH and OSHA exposure limit lists have been checked for those components with CAS registry numbers.

#### Fibrous glass (Fiber glass wool) (65997-17-3)

ACGIH: 1 f/cc TWA for respirable fibers longer than 5 um with a diameter less than 3 um;  
(Listed under "Synthetic vitreous fibers") (related to Glass wool fibers)

OSHA: 1 fiber/cc (respirable) TWA (a) (See Note Below) (related to Glass wool fiber)

**Notes:** (a) Voluntary PEL established by NAIMA and OSHA per the Health and Safety Partnership Program (HSPP) agreement for Synthetic Vitreous Fibers (SVF). Prior to the HSPP agreement, the OSHA 8 hr- TWA PELs for Particulates Not Otherwise Regulated (PNOR) of 15 mg/m<sup>3</sup> (total particulate) and 5 mg/m<sup>3</sup> (respirable particulate) applied to airborne glass wool fibers and dusts. These PELs were based on gravimetric measurements of airborne particulates including glass dusts and fibers.

NAIMA = North American Insulation Manufactures Association

### Ventilation:

General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits. Dust collection systems should be used in operations involving cutting or machining and operations using power tools, as necessary. Local exhaust containing glass fibers and dusts should be filtered prior to recirculation into interior workspaces. Check and regularly maintain exhaust ventilation and dust collection systems. Use power tools equipped with appropriate local exhaust ventilation, as feasible.

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## PERSONAL PROTECTIVE EQUIPMENT

### Respiratory Protection:

**Fiber Glass Wool:** A properly fitted NIOSH approved N 95 series disposable dust respirator such as the 3M model 8210 (formerly 8710) or model 8271 (formerly 9900) in high humidity environments or equivalent should be used when: high dust levels are encountered; the level of glass fibers in the air exceeds the occupational exposure limits; or if irritation occurs.

Use respiratory protection in accordance with respirator manufacturer's instructions and in accordance with your company's respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

### Skin Protection:

Loose fitting long sleeved shirt, long pants and gloves when installing or removing insulation. Do not tape sleeves at wrists or pants at ankles.

### Eyes/Face Protective Equipment:

Wear safety glasses with side shields. Wear goggles or a full face shield.

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	Pink fibrous with polyethylene film	<b>Odor:</b>	None
<b>Physical State:</b>	Solid	<b>pH:</b>	Not applicable
<b>Vapor Pressure (mm Hg @ 20 C):</b>	Not applicable	<b>Vapor Density (Air=1):</b>	Not applicable
<b>Boiling Point:</b>	Not applicable	<b>Solubility (H2O):</b>	Insoluble
<b>Specific Gravity (Water=1):</b>	Not applicable	<b>Freezing Point:</b>	Not applicable
<b>Evaporation Rate (n-Butyl Acetate=1):</b>	Not applicable		

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Stability:

Stable under normal conditions.

### Conditions to Avoid:

Avoid heat and contamination with incompatible materials.

### Incompatible Materials:

Avoid exposure to strong oxidizers, excessive heat, sparks or open flame.

### Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, olefinic and paraffinic compounds, oxides of nitrogen, undetermined hydrocarbons and trace amounts of organic acids, ketones, aldehydes, and alcohols may form.

### Hazardous Polymerization:

Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute and Chronic Toxicity:

#### A: General Product Information

No information available for the product. Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher exposures may cause difficulty breathing, congestion, and chest tightness.

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## B: Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

## Carcinogenicity:

### Component Carcinogenicity

ACGIH, IARC, OSHA, and NTP carcinogen lists have been checked for those components with CAS registry numbers.

#### Fibrous glass (Fiber glass wool) (65997-17-3)

ACGIH: A3 - animal carcinogen (related to Glass wool fibers)

NTP: Suspect Carcinogen (related to Glasswool) (Possible Select Carcinogen)

IARC: Monograph 43, 1988 (related to Glasswool) (Group 2B (possibly carcinogenic to humans))

**Fiber Glass Wool:** The International Agency for Research on Cancer (IARC) in June, 1987, classified fiber glass wool as a possible cancer causing agent to humans (Group 2B). This classification was based on a combined evaluation of published human and animal studies. The human data included large scale mortality studies of U.S. and European fiber glass wool factory workers. IARC concluded that human studies did not provide sufficient evidence that fiber glass wool caused cancer in humans. The classification of fiber glass wool as a possible carcinogen to humans was substantially based on experimental animal studies in which they were exposed to wool glass fibers through non-natural routes, such as injection or implantation. IARC regards it prudent to treat a material with sufficient evidence of carcinogenicity in animals as if it is a carcinogen in humans.

In May 1997, the American Conference of Governmental Industrial Hygienists (ACGIH) adopted an A3 carcinogen classification for synthetic vitreous fibers-glass wool insulation. The classification is the result of a lengthy review process.

The ACGIH A3 classification considers glass wool to be carcinogenic in experimental animals at relatively high doses, by routes of administration, at sites, or by mechanisms that it does not consider relevant to worker exposure. It also reviewed the available epidemiological studies and concluded that they do not confirm an increased risk of cancer in exposed humans. Overall, the ACGIH found that the available medical/scientific evidence suggests that glass wool is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

The TLV-TWA of 1 respirable fiber/cc was adopted for fiber glass wool to prevent irritation of the respiratory tract or any possible long-term respiratory health effects in workers.

## ANIMAL STUDIES

Over the last 50+ years there have been numerous studies on the potential health effects of glass fibers in animals. There are two major types of animal studies: 1) inhalation where the animals breath glass wool fibers, and 2) instillation studies where the fibers are injected or surgically implanted directly into the animal. Inhalation is most similar to the way that humans are exposed to fibers.

Animal inhalation experiments in which laboratory animals were exposed to large quantities of glass wool fibers have not resulted in a positive association between glass fibers and fibrosis, lung cancer, or mesothelioma. When large quantities of glass wool fibers were injected or surgically implanted into sterile, sensitive body cavities of experimental animals, they have produced mesotheliomas, but not fibrosis or lung cancer.

Another type of glass fibers, special purpose, in 1997, for the first time, produced fibrosis, lung cancer and mesothelioma in rats. Those special purpose glass fibers were different from these glass wool fibers in composition, biosolubility and end use.

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All glass wool fibers manufactured by Owens Corning are designed not to be biopersistent. That is, should they be respired into the lungs, they will be removed by either the lung's mechanical clearance mechanisms or be dissolved, in such a short period of time, that they will not cause fibrosis, lung cancer, or mesothelioma.

## EPIDEMIOLOGY

There have been numerous studies of workers exposed to glass wool. A small study of Canadian glass wool workers reported a statistically significant increase in lung cancer mortality. The study did not demonstrate a correlation between fiber glass wool exposure and disease.

Large scale studies published in 1987 which examined the mortality rates of U.S. and European fiber glass wool factory workers found no statistically significant differences in lung cancer rates between those workers and the populations in their local or regional communities. A 1990 update of the U.S. cohort reported a small statistically significant excess for respiratory cancer in workers when compared with populations in their local communities. While the overall mortality rates in these mortality studies were slightly raised and did increase (but not significantly) with time since the first exposure, the increases were not related to duration of exposure or to an estimated time weighted measure of exposure.

Georgetown University recently studied the oldest and largest fiber glass plant in the U.S. The results indicate that smoking was the likely cause of this cancer excess. A study at the University of Massachusetts is investigating other possible factors.

A large recently completed morbidity study reported no association with fiber glass exposure and non-malignant respiratory disease. Another smaller screening of workers at a plant that manufactured appliances concluded that fiber glass wool appeared to produce "asbestosis" in the workers. That study has been severely criticized for many reasons, not the least of which is its failure to factor in the workers exposures to asbestos.

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity:

No data available for this product.

This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### US EPA Waste Number & Descriptions:

#### A: General Product Information

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

#### B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

### Disposal Instructions:

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### US DOT Information

Not regulated for transportation.

### TDG Information

Not Regulated for transportation

### Additional Transportation Regulations:

No additional information available.

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## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations:

#### A: General Product Information

**OSHA Status:** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

#### B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

#### SARA 311/312

**Acute Health Hazard:** Yes

**Chronic Health Hazard:** Yes

**Fire Hazard:** No

**Sudden Release of Pressure Hazard:** No

**Reactive Hazard:** No

#### C: Clean Air Act

None of this product's components are listed on the Clean Air Act-1990 Hazardous Air Pollutants List.

### State Regulations:

#### A: General Product Information

Other state regulations may apply. Check individual state requirements.

#### B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Fibrous glass (Fiber glass wool) (1 related to Mineral wool fiber)	65997-17-3	Yes <sup>1</sup>	No	Yes <sup>1</sup>	Yes	No	Yes <sup>1</sup>

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

### Other Regulations:

#### A: General Product Information

All components are listed on the US EPA TSCA Inventory, or are not required to be listed.

All components are listed on the Canadian DSL, or are not required to be listed.

#### B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Fibrous glass (Fiber glass wool)	65997-17-3	Yes	Yes	Yes
Polyethylene Film	25087-34-7	Yes	Yes	No

#### C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	
Fibrous glass (Fiber glass wool)	65997-17-3	1% item 768 (884) (related to Fibrous glass)

**WHMIS Status:** Controlled

**WHMIS Classification:** D2A – Carcinogenicity

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## \*\*\* Section 16 - Other Information \*\*\*

HMIS and NFPA Hazard Ratings:	Category	HMIS	NFPA
	Health	1*	1
	Flammability	0	0
	Reactivity	0	0

**NFPA Unusual Hazards** None.

**HMIS Personal Protection** To be supplied by user depending upon use.

HMIS Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

NFPA Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### Key/Legend:

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act; DSL = Canadian Domestic Substance List; EINECS = European Inventory of New and Existing Chemical Substances; WHMIS = Workplace Hazardous Materials Information System; CAA = Clean Air Act

### Revision Summary:

This is a new MSDS. Read this information carefully.

Get OC MSDS electronically via Internet: <http://owenscorning.mtcibs.com> or by calling 1-419-248-8234.

This is the end of MSDS # 24894