

**MATERIAL SAFETY DATA SHEET**

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SECTION I  
PRODUCT IDENTIFICATION

PRODUCT: **THERMAFIBER® Bonded Products**

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CHEMICAL FAMILY: Vitreous fiber made from slag and/or basalt (mixture).

SECTION II  
INGREDIENTS

Material	Wt. (%)	TLV mg/m <sup>3</sup>	PEL mg/m <sup>3</sup>	CAS Number
mineral wool fiber <sup>(1)</sup>	95	10	15 (T)/5(R)	65997-17-3
phenolic resin	<5	(NE)	(NE)	9003-35-4
vinyl alcohol polymer <sup>(2)</sup>	<1	(NE)	(NE)	9002-89-5

(T) - Total (R) - Respirable (NE) - Not Established

<sup>(1)</sup>NIOSH recommended standard is 3 fibers/cc. WHMIS class D2B. This material is mineral wool. Other generic terms that are used or have been used to classify this and other fibrous glassy materials include mineral wool, man-made mineral fiber (MMMMF) and man-made vitreous fiber (MMVF).

<sup>(2)</sup>Present as adhesive only in laminated products.

All components of this product are included in the U. S. EPA TSCA Inventory listing. All components of this product are included in the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

**\*\*\*\*\*This is a Non-Asbestos Product.\*\*\*\*\***

SECTION III  
PHYSICAL DATA

Appearance:	Gray or tan-colored	Odor:	Low
Physical State:	Solid	pH:	N/A
Melting Point:	Approx. 2400°F	Solubility (H <sub>2</sub> O):	Insoluble
Specific Gravity:			

SECTION IV  
FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** None  
**Flammability Classification:** N/A  
**General Fire Hazards:** Will not burn.  
**Hazardous Combustion Products:** Thermal decomposition will yield oxides of carbon and smoke.  
**Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.  
**Fire Fighting Equipment/Instructions:** Self-contained breathing apparatus (SCBA) and full fire fighting turn out gear (Bunker gear). For PPE see Section 8.

SECTION V  
HEALTH HAZARD DATA

**Acute Information**

The components of this product are bound in a phenolic resin. When cut or trimmed, especially with power tools, the resulting dust may cause transitory mechanical irritation to skin, eyes or respiratory tract.  
Use knives or razors to cut and trim. Avoid using power tools whenever possible.

**Eyes:** Direct contact with eye can cause mechanical irritation.

**Skin:** This material (in wet state or as dust) is not chemically harmful if it gets on the skin and is not immediately washed off. However direct contact of dust and especially mineral wool fibers with skin can cause skin irritation (mechanical) and itchiness.

**Ingestion:** No known effects.

**Inhalation:** Inhalation of dust can cause nose, throat, lungs and upper respiratory tract irritation. Persons exposed to dust may be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation.

**CHRONIC INFORMATION**

In 1987 the International Agency for Research on Cancer (IARC) concluded that there was limited evidence (i.e., 2B classification) for the carcinogenicity of airborne respirable mineral (slag) wool fibers. IARC based its classification on U.S. and European epidemiologic studies of workers at slag wool plants. In these studies a small, yet statistically significant, increase in the rate of lung cancer was observed among the workers. Recently the U. S. epidemiologic studies were updated and the authors concluded that the rate of lung cancer among the workers was not statistically significant compared to the general population.

Animal experimental studies in which slag wool fibers were injected or implanted into the chest or abdominal cavities did not produce statistically significant numbers of tumors over the lifetime of the animals.

SECTION V  
HEALTH HAZARD DATA  
(Continued)

**EMERGENCY AND FIRST AID PROCEDURES:**

**Eyes:** In case of contact, immediately flush thoroughly with copious amounts of water occasionally lifting the lower and upper lids (to remove particulates). Get medical attention immediately. Contact lenses should not be worn when working with this product.

**Skin:** Skin contact is not a chemical hazard. Mechanical action of fibers on skin can cause itchiness. Irritation of skin may occur with prolonged and repeated contact. Rinse with cool water, followed by washing with soap and warm water. A commercially available skin cream or lotion may be helpful to treat dry skin areas.

**Ingestion:** No harmful effects expected. No specific recommendation. If gastric disturbance occurs, call physician.

**Inhalation:** If exposed to excessive levels of dust, leave the area of dust exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, get medical attention.

**Notes to Physician:** Treatment should be directed at the control of symptoms and the clinical condition. Pre-existing upper respiratory and lung disease such as, but not limited to, bronchitis, emphysema and asthma may be aggravated by dust exposures.

**PRIMARY ROUTES OF ENTRY:** Inhalation, Eyes and Skin contact.

**Carcinogenicity of Ingredients:**

MATERIAL	IARC	NTP
mineral wool fiber	2B	Not Listed

Respirable mineral wool fiber is classified by IARC as a possible human carcinogen (Group 2B). Target organ: Lungs.

SECTION VI  
REACTIVITY DATA

**Chemical Stability:** Stable

**Conditions to Avoid:** None known.

**Incompatibility:** Acids (gives off H<sub>2</sub>S under certain acidic conditions).

**Hazardous Decomposition Products:** Oxides of carbon with thermal decomposition.

**Hazardous Polymerization:** Will not occur.

SECTION VII  
SPILL OR LEAK PROCEDURES

**Steps to be Taken in case Material is Released or Spilled:** In case of spill, pick up or scoop up and place in container. Containment not necessary. Treat as inert material. Normal cleanup procedures. Wear appropriate protective equipment (See Section VIII).

**Waste Disposal:** Dispose of material in accordance with federal, state, local and provincial environmental regulations. Contact the local or state environmental agency for specific rules.

SECTION VIII  
SPECIAL PROTECTION INFORMATION

**PERSONAL PROTECTIVE EQUIPMENT**

**Eye & Skin:** Wear eye protection (safety glasses or goggles) to avoid particulate irritation of the eye. Wear tight fitting goggles and gloves if dust is irritating. Wear long sleeved, loose fitting clothing closed at the neck and wrists and minimize skin contact. Wash work clothing separately from other clothing. Rinse washer thoroughly after use.

**Respiratory:** Ensure adequate ventilation in work area. Avoid continued and prolonged inhalation of MMMF dust when working with product. If dusty, wear a NIOSH/MSHA-approved dust respirator. Provide general ventilation and local exhaust ventilation to meet TLV requirements of individual ingredients and to control dusting conditions. If cutting or trimming with power equipment, dust collectors and local ventilation must be used.

SECTION IX  
SPECIAL PRECAUTIONS

**Procedures for Handling:** Normal precautions should be followed in handling, storage and use. During handling and use wear the appropriate respiratory, eye and skin protection if warranted per environmental conditions.

**Recommended Storage Methods:** Keep dry.

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS:

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0 Other: N/A  
HMIS Ratings: Health: 0 Fire: 0 Reactivity: 0

**Personal Protection:** Use eye and skin protection. Use NIOSH/MSHA-approved respiratory protection when necessary.

**Definition of ratings:** 0 Minimal Hazard, 1 Slight Hazard, 2 Moderate Hazard, 3 Serious Hazard, 4 Severe Hazard