

<b>Section 1 - Chemical Product and Company Identification</b>
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**Product Name** Fiber Glass Insulation, Formaldehyde-free

**CAS#** Mixture/None Assigned

**Generic Name** Fiber Glass Wool Product

**Formula** Mixture

**Chemical Name:** Mixture

**Hazard Label** FGW-01 or L1021

**Manufacturer Information**

Johns Manville Insulation Group

Building Insulation Division

P.O. Box 5108

Denver, CO 80127 USA

Telephone: 303-978-2000 8:00AM-5:00PM M-F

 Internet Address: <http://www.jm.com>

Emergency: 800-424-9300 (Chemtrec, In English)

**Trade Names:**

Basement Wall Insulation®, Unfaced;

ComfortTherm®;

EasyFit™;

EasyFit®;

 Engineered Wood® Formaldehyde-free Thermal and  
 Acoustical Fiber Glass Insulation;

Foil-Faced Batts;

High-Density Blowing Wool;

Insul-SHIELD® Unfaced Boards, Formaldehyde-free;

Kraft-Faced Fiber Glass Insulation;

MR™-Faced;

Microlite® "L", Formaldehyde-free;

Micro-Pak®;

Manufactured Housing Insulation, Formaldehyde-free;

Multi-Purpose Fiber Glass;

Pan-Insul®, Formaldehyde-free;

PEBS Blanket™, Formaldehyde-free;

Rich-R® Blowing Wool, Formaldehyde-free;

Sound Control Batts;

Sound-SHIELD®;

Spin-Glas®;

 Steel Frame Formaldehyde-free Thermal and Acoustical Fiber  
 Glass Insulation;

UMBI®, Formaldehyde-free;

Unfaced Sound Control Batts;

Unfaced Thermal and Acoustical Fiber Glass Insulation;

 Wood Frame Formaldehyde-free Thermal and Acoustical Fiber  
 Glass Insulation

<b>Section 2 - Composition / Information on Ingredients</b>
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CAS #	Component	Percent
65997-17-3	Fiber glass wool	80-98
Not Available	Acrylic thermoset resin	2-15
Not Available	Foil/kraft, kraft, FSK, polyethylene, PSK, and various metal building facings	0-15

<b>Section 3 - Hazards Identification</b>
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**Emergency Overview**

APPEARANCE AND ODOR: White fibrous glass board, batt, blanket, or loose-fill insulation with or without tan kraft, blue kraft, FSK, or other facings. No significant odor.

Dust from fiber glass wool has been designated by US NTP as a possible cause of cancer by inhalation. However, the World Health Organization (IARC) recently reclassified fiber glass wool to Group 3 - not classifiable as a carcinogen.

Inhalation of excessive amounts of dust from the product may cause temporary upper respiratory irritation and/or congestion--remove individual to fresh air.

**Potential Health Effects**
**Summary**

Breathing dust from this product may cause a scratchy throat, congestion, and slight coughing. Getting dust or fibers on the skin, or in the eyes may cause itching, rash, or redness. Additional health and safety information is provided in Section 11 of this material safety data sheet.

**Inhalation**

Irritation of the upper respiratory tract (scratchy throat), coughing, and congestion may occur in extreme exposures.

**Skin**

Temporary irritation (itching) or redness may occur.

**Ingestion**

This product is not intended to be ingested (eaten). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

**Eyes**

Temporary irritation (itching) or redness may occur.

**Ears**

Temporary irritation (itching) or redness may occur.

**Primary Routes of Entry (Exposure)**

Inhalation (breathing dust), skin, and eye contact.

**Target Organs**

Nose (nasal passages), throat, lungs, skin, eyes.

**Medical Conditions Aggravated by Exposure**

Pre-existing chronic respiratory, skin, or eye diseases or conditions.

**Section 4 - First Aid Measures**

**First Aid: Inhalation**

Remove to fresh air. Drink water to clear throat, and blow nose to remove dust.

**First Aid: Skin**

Wash gently with soap and water to remove dust. Wash hands before eating or using the restroom.

**First Aid: Ingestion**

Product is not intended to be ingested or eaten. If this product is ingested, irritation of the gastrointestinal (GI) tract may occur, and should be treated symptomatically. Rinse mouth with water to remove fibers, and drink plenty of water to help reduce the irritation. No chronic effects are expected following ingestion.

**First Aid: Eyes**

Do not rub or scratch your eyes. Dust particles may cause the eye to be scratched. Flush eyes with large amounts of water for 5-15 minutes. If irritation persists, contact a medical professional.

**First Aid: Ears**

Wash exposed skin with soap and water. If irritation develops in the inner ear, seek medical attention.

**First Aid: Notes to Physician**

This product is a mechanical irritant, and is not expected to produce any chronic health effects from acute exposures. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary.

**Section 5 - Fire Fighting Measures**

**Flash Point:** Not applicable

**Upper Flammable Limit (UFL):** Not applicable

**Auto Ignition:** Not determined

**Rate of Burning:** Not determined

**General Fire Hazards**

There is no potential for spontaneous fire or explosion.

**Extinguishing Media**

Carbon dioxide (CO<sub>2</sub>), water, water fog, dry chemical.

**Fire Fighting Equipment/Instructions**

No special procedures are expected to be necessary for this product. Normal fire fighting procedures should be followed to avoid inhalation of smoke and gases.

**Method Used:** Not applicable

**Lower Flammable Limit (LFL):** Not applicable

**Flammability Classification:** Not determined

**Section 6 - Accidental Release Measures**

**Containment Procedures**

Pick up large pieces. Vacuum dusts. If sweeping is necessary, use a dust suppressant such as water. Do not dry sweep dust accumulation or use compressed air for clean-up. These procedures will help to minimize potential exposures.

**Clean-Up Procedures**

Avoid the generation of dusts during clean-up.

## Section 7 - Handling and Storage

**Handling Procedures**

Use protective equipment as described in Section 8 of this material safety data sheet when handling uncontained material.

**Storage Procedures**

Warehouse storage should be in accordance with package directions, if any. Material should be kept clean, dry, and protected from moisture.

## Section 8 - Exposure Controls / Personal Protection

**Exposure Guidelines****A: General Product Information**

Glass wool fiber, OSHA voluntary Health and Safety Partnership Program (HSPP): 1 f/cc TWA for fibers longer than 5 µm with a diameter less than 3 µm.

**B: Component Exposure Limits****Fiber glass wool (65997-17-3)**

ACGIH: 1 f/cc TWA (respirable fibers: length > 5 µm, aspect ratio equal to or greater than 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.)

**PERSONAL PROTECTIVE EQUIPMENT****Personal Protective Equipment: Eyes/Face**

Safety glasses with sideshields are recommended to keep dust out of the eyes.

**Personal Protective Equipment: Ears**

Use ear protection (earplugs, hood, or earmuffs) to prevent airborne dust or fibers from entering the ear, if necessary.

**Personal Protective Equipment: Skin**

Leather or cotton gloves should be worn to prevent skin contact and irritation. Barrier creams may also be used to reduce skin contact and irritation caused by fiber glass.

**Personal Protective Equipment: Respiratory**

A respirator should be used if ventilation is unavailable, or is inadequate for keeping dust and fiber levels below the applicable exposure limits. In those cases, use a NIOSH-certified disposable or reusable particulate respirator with an efficiency rating of N95 or higher (under 42 CFR 84) when working with this product. For exposures up to five times the established exposure limits use a quarter-mask respirator, rated N95 or higher; and for exposures up to ten times the established exposure limits use a half-mask respirator (e.g., MSA's DM-11, Racal's Delta N95, 3M's 8210), rated N95 or higher. Operations such as sawing, blowing, tear out, and spraying may generate airborne fiber concentrations requiring a higher level of respiratory protection. For exposures up to 50 times the established exposure limits use a full-face respirator, rated N99 or higher.

**Ventilation**

In fixed manufacturing settings, local exhaust ventilation should be provided at areas of cutting to remove airborne dust and fibers. General dilution ventilation should be provided as necessary to keep airborne dust and fibers below the applicable exposure limits and guidelines. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.

**Personal Protective Equipment: General**

Wear a cap, a loose-fitting, long-sleeved shirt and long pants to protect skin from irritation. Exposed skin areas should be washed with soap and warm water after handling or working with fiber glass. Clothing should be washed separately from other clothes, and the washer should be rinsed thoroughly (run empty for a complete wash cycle). This will reduce the chances of fiber glass being transferred to other clothing.

## Section 9 - Physical & Chemical Properties

<b>Appearance:</b> White fibrous glass board, batt, blanket, or loose fiber, with or without various facings	<b>Odor:</b> No significant odor
<b>Physical State:</b> Solid	<b>pH:</b> Not applicable
<b>Vapor Pressure:</b> Not applicable	<b>Vapor Density:</b> Not applicable
<b>Boiling Point:</b> Not applicable	<b>Melting Point:</b> >704°C/1300°F
<b>Solubility (H<sub>2</sub>O):</b> Nil	<b>Specific Gravity:</b> Variable
<b>Freezing Point:</b> Not applicable	<b>Evaporation Rate:</b> Not applicable
<b>Percent Volatile:</b> 0	<b>VOC:</b> 0

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

This is a stable material. This product is not reactive.

**Hazardous Decomposition**

Although fiber glass itself is not combustible, the following decomposition products may be released during burning of the insulation binder: carbon monoxide, carbon dioxide, carbon particles, and small hydrocarbons.

**Hazardous Polymerization**

Will not occur.

**Section 11 - Toxicological Information****Acute Toxicity****A: General Product Information**

Dust from this product is a mechanical irritant, which means that it may cause temporary irritation or scratchiness of the throat, and/or itching of the eyes and skin.

**B: Component Analysis - LD50/LC50**

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

**Carcinogenicity****A: General Product Information**

No additional information available.

**B: Component Carcinogenicity****Fiber glass wool (65997-17-3)**

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans

NTP: Reasonably Anticipated To Be A Carcinogen (respirable size)

IARC: Group 3 - Not Classifiable (IARC Monograph 43, 1988; Monograph 81, 2002)

**Chronic Toxicity**

Fiber Glass Wool: In October 2001, IARC classified fiber glass wool as Group 3, "not classifiable as to its carcinogenicity to humans." The 2001 decision was based on current human and animal research that shows no association between inhalation exposure to dust from fiber glass wool and the development of respiratory disease. This is a reversal of the IARC finding in 1987 of a Group 2B designation (possibly carcinogenic to humans) based on earlier studies in which animals were injected with large quantities of fiber glass. NTP and ACGIH have not yet reviewed the IARC reclassification or the most current fiber glass health research; at this time, both agencies continue to classify glass wool based on the earlier animal injection studies.

A detailed listing of references on fiber glass health effects can be found in the publication HSE-64C, "Health and Safety Aspects of Fiber Glass," which can be downloaded from Johns Manville's internet homepage, [www.jm.com](http://www.jm.com) (select "Health Safety and Environment").

**Section 12 - Ecological Information****Ecotoxicity****A: General Product Information**

No data available for this product.

**B: Component Analysis - Ecotoxicity - Aquatic Toxicity**

No ecotoxicity data are available for this product's components.

**Section 13 - Disposal Considerations****US EPA Waste Number & Descriptions****A: General Product Information**

This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the EPA.

**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**

**Shipping Name:** Not listed as a hazardous material for shipping.

<b>Section 15 - Regulatory Information</b>
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**US Federal Regulations****A: General Product Information**

SARA 311/312: This product is not classified as hazardous under SARA 311/312.

**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).

**State Regulations****A: General Product Information**

No information available for the product.

**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
Fiber glass wool (*related to Mineral wool fiber) (*related to Glass wool fiber)	65997-17-3	Yes <sup>1</sup>	No	Yes <sup>1</sup>	Yes	No	Yes <sup>2</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.

**Fiber glass wool (related to Mineral wool fiber) CAS# 65997-17-3**

**A: TSCA Status**

This product and its components are listed on the TSCA 8(b) inventory.

None of the components listed in this product are listed on the TSCA Export Notification 12(b) list.

**B: Component Analysis - Inventory**

Component	CAS #	TSCA	DSL	EINECS
Fiber glass wool	65997-17-3	Yes	Yes	Yes

**Component Analysis - WHMIS IDL**

No components are listed in the WHMIS IDL.

<b>Section 16 - Other Information</b>
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**Other Information**

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Date	MSDS #	Reason
03/22/05	1071-1.0000	New MSDS for antimony free BI products.
06/06/05	1071-1.0001	Addition of Unfaced Sound Control Batts to Sect. 1 trade names. This is the end of MSDS # 1071