

**Section 1 - Product and Company Identification**

**Hazard Label** WARNING label

**Company Information**

Johns Manville  
Insulation Systems  
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;	Manufactured Housing Insulation, Formaldehyde-free;
ComfortTherm®;	Multi-Purpose Fiber Glass;
EasyFit™;	Pan-Insul®, Formaldehyde-free;
EasyFit®;	PEBS Blanket™, Formaldehyde-free;
Engineered Wood® Formaldehyde-free Thermal and Acoustical Fiber Glass Insulation;	Pour and Rake Attic Insulation;
Flex-Glas® PC;	Rich-R® Blowing Wool, Formaldehyde-free;
Foil-Faced Batts;	Sound Control Batts;
High-Density Blowing Wool;	Sound-SHIELD®;
Kraft-Faced Fiber Glass Insulation;	UMBI®, Formaldehyde-free;
MR™-Faced;	Unfaced Sound Control Batts;
Microlite® "L", Formaldehyde-free;	Unfaced Thermal and Acoustical Fiber Glass Insulation;
Micro-Pak®;	Wood Frame Formaldehyde-free Thermal and Acoustical Fiber Glass Insulation

**Use:** For use in commercial, residential, manufactured housing, and metal buildings.

**Section 2 - Hazards Identification**

**Emergency Overview**

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

**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, 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 3 - Composition/Information on Ingredients**

CAS #	Component	Percent
Not Applicable	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

**General Product Description**

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

### Section 4 - First Aid Measures

**First Aid: Inhalation**

If dust is inhaled in excess of exposure limits referenced in section 8 of this safety data sheet, remove individual to fresh air. Drink water to clear throat, and blow nose to remove dust. A saline spray in the nose may help clear any fibers.

**First Aid: Skin**

Wash gently with soap and water to remove dust and fibers. Alternatively, fibers can be removed from the skin by use of ordinary masking or wrapping tape. Should irritation persist, seek medical attention.

**First Aid: Ingestion**

Rinse mouth with water to remove dust and fibers and drink plenty of water to help reduce irritation. If irritation persists, seek medical attention.

**First Aid: Eyes**

Do not rub or scratch eyes. Dust particles may cause the eye to be scratched. Flush eyes with large amounts of water until irritation subsides. If irritation persists, seek medical attention.

**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**

Dust from the product may cause mechanical irritation of the eyes, skin, and upper respiratory tract. Treat symptomatically.

### 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. Inorganic glass fibers are naturally non-combustible and non-flammable.

**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

**Clean-Up Procedures**

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

### Section 7 - Handling and Storage

**Handling Procedures**

Use protective equipment as described in Section 8 of this safety data sheet when handling uncontained material. Handle in accordance with good industrial hygiene and safety practices.

**Storage Procedures**

Warehouse storage should be in accordance with package directions, if any. Material should be kept clean, dry, and in original packaging.

### Section 8 - Exposure Controls / Personal Protection

The Occupational Safety and Health Administration (OSHA) has not adopted specific occupational exposure standards for fiber glass. Fiber glass is treated as a nuisance dust and is regulated by OSHA as a particulate not otherwise regulated (total dust) shown in CFR 1910.1000 Table Z-3.

Respirable fraction 5 mg/m<sup>3</sup>

Total dust 15 mg/m<sup>3</sup>

JM has adopted the fiber glass industry voluntary Product Stewardship Program (PSP), formerly the NAIMA-OSHA Health and Safety Partnership Program (HSPP). Under the PSP, JM recommends that exposures be limited to the voluntary concentration of 1 f/cc TWA for fibers longer than 5 microns with a diameter less than 3 microns. This will help minimize potential irritation effects. The PSP also includes the PPE recommendations described below.

## **PERSONAL PROTECTIVE EQUIPMENT**

### **Personal Protective Equipment: Eyes/Face**

Safety glasses with side shields 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 protect against mechanical abrasion. See also Personal Protective Equipment: General, below.

### **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 referenced in Section 8 of this SDS. Wear a NIOSH-certified disposable or reusable particulate respirator with an efficiency rating of N95 or higher (per 42 CFR 84) when dust or fiber concentrations exceed the applicable exposure limits. 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, milling or other processing to remove airborne dust and fibers.

### **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 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> Not determined

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

### **Stability**

These products are not reactive.

### **Hazardous Decomposition**

May form carbon dioxide and carbon monoxide.

### **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.

**Component Carcinogenicity**

**Fiber glass wool**

- 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 81 [2002] (listed under Man-made mineral fibres),  
Monograph 43 [1988])

**Chronic Toxicity**

The U.S. Department of Health and Human Services, National Toxicology Program (NTP 1998, 2000, 2002) classified glass wool (respirable size) as reasonably anticipated to be a human carcinogen, based on sufficient evidence of carcinogenicity in animals. This assessment was originally prepared in 1993-1994 for the 7th Report on Carcinogens (NTP 1994), but has not been updated since then in the 8th, 9th, or 10th Reports on Carcinogens (NTP 1998, 2000, 2002).

**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 is not expected to be a hazardous waste when it is disposed of according to the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Product characterization after use is recommended to ensure proper disposal under federal and/or state requirements.

**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 - Transport Information**

**International Transport Regulations**

These products are not classified as dangerous goods according to international transport regulations.

**Section 15 - Regulatory Information**

**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**

The glass fibers in this product are not known to be regulated.  
Other state regulations may apply. Check individual state requirements.

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.

Component	CAS #
Fiber glass wool	Not Applicable

**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.

**Material Name: Fiber Glass Building and Flexible Duct Insulation Formaldehyde-free,  
Antimony trioxide-free**

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## International Regulations

### A: General Product Information

These products are considered articles under both U.S. and international product regulations and as such, these products do not require registration or notification on the various country-specific inventories.

### B: Component Analysis - WHMIS IDL

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

Component	CAS #	Minimum Concentration
Fiber glass wool	Not Applicable	1 % (related to Fibrous glass)

## WHMIS Classification

Controlled Product Classification: D2A

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations. This SDS contains all the information required by the Controlled Products Regulations.

## Section 16 - Other Information

### Other Information

Prepared for:  
Johns Manville  
Insulation Systems  
P. O. Box 5108  
Denver, CO USA 80217-5108

Prepared by:  
Johns Manville Technical Center  
P.O. Box 625005  
Littleton, CO USA 80162-5005

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

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.
06/29/06	1071-1.0002	Removed Insul-SHIELD® Unfaced Boards, Formaldehyde-free from trade names.
07/16/07	1071-1.0003	Regulatory update. Minor edits.
02/29/08	1071-1.0004	Removed Spin-Glas®; Steel Frame Formaldehyde-free Thermal and Acoustical Fiber Glass Insulation from trade names. Added 'Antimony Trioxide-free' to material name. Edited WHMIS classification to D2A for fiber glass wool.
03/03/09	1071-1.0005	Addition of Pour and Rake Attic Insulation to trade names.
06/02/09	1071-1.0006	Addition of FlexGlas PC to trade names.

End of Sheet 1071