



Material Name: Fiber Glass OEM Insulation

Material Safety Data Sheet ID: 1001



Section 1 - Chemical Product and Company Identification

Product Name Fiber Glass Insulation
 CAS# Not applicable
 Generic Name Fiber Glass Wool Product
 Formula Not available
 Chemical Name: Mixture
 Hazard Label FBG-003

Manufacturer Information

Johns Manville Insulation Group
 OEM Division, Specialty Products
 P.O. Box 5108
 Denver, CO 80127

Telephone: 303-978-2000
 Internet Address: <http://www.jm.com>
 Emergency: 800-424-9300 (Chemtrec)

Trade Names: All Other Spin-Glass®, Appliance Spin-Glass® (ASG); Spin-Glass® (SG) 22-32; CM-28; Equipment Spin-Glass Board®; Exact-O-Board®; Flex-Glass™ PC; Microlite®; Microlite® AWP; Microlite® MW; Microlite® TC; Microlite® WH; Microlite XP; Range Spin-Glass®; Spin-Glass® Water Heater (SG-WH); Tuf-Skin®; Tuf-Skin® II; Valulite™

Section 2 - Composition / Information on Ingredients

CAS #	Component	Percent
65997-17-3	Fiber Glass Wool	50-60
25212-25-3	Urea extended phenol-melamine formaldehyde resin (cured)	1-20*
25104-55-8	Urea extended phenol-formaldehyde resin (cured)	1-20*
Not Available	Acrylic thermoast resin	1-20*
Not Available	Phenol-formaldehyde resin (cured)	1-6**

Component Related Regulatory Information

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

Additional Component Information

* For trade names other than Range Spin-Glass®, binder may be any of these.
 ** Range Spin-Glass® binder.

Section 3 - Hazards Identification

Emergency Overview

APPEARANCE AND ODOR: Fibrous glass blanket or board; white, gold-to-yellow, orange, black, or black with a green core; with or without non-woven facings. No significant odor.

Under normal conditions of use, this product is not expected to create any unusual emergency hazards.

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

In the event of fire, use normal fire fighting procedures to prevent inhalation of smoke and gases.

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.

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Skin

Temporary irritation (itching) or redness may occur.

Absorption

Not applicable

Ingestion

This product is not intended to be ingested or eaten under normal conditions of use. If ingested, it may cause temporary irritation to the gastrointestinal (GI) tract, especially the stomach.

Eyes

Temporary irritation (itching) or redness may occur.

Target Organs

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

Primary Routes of Entry (Exposure)

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

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 warm 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: 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 fire or explosion.

Extinguishing Media

Carbon dioxide (CO2), 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.

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Storage Procedures

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

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)

AGGIM: 1 f/cc TWA for fibers longer than 5 µm with a diameter less than 3 µm; (Listed under "Synthetic vitreous fibers"). (related to Glass Wool Fiber)

OSHA: 5 mg/m3 TWA respirable fraction (OSHA)

15 mg/m3 TWA total dust (OSHA)
(related to Glass Wool Fiber)

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

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

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, Rascal'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

Loose-fitting, long-sleeved clothing should be worn 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

Appearance: White, gold-to-yellow, orange, black, or black with a green core; fibrous glass blanket or board

Odor: No significant odor

Physical State: Solid
Vapor Pressure: Not applicable
Boiling Point: Not applicable
Solubility (H2O): Nil
Freezing Point: Not applicable
Percent Volatile: 0

pH: Not applicable
Vapor Density: Not applicable
Melting Point: >704°C/1300°F
Specific Gravity: Variable
Evaporation Rate: Not applicable
VOC: Not applicable

Section 10 - Chemical Stability & Reactivity Information

Chemical Stability

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

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The decomposition products from this material are those that would be expected from any organic (carbon-containing) material, and are mainly derived from pyrolysis, or burning, of the resin. These decomposition products may include carbon monoxide, carbon dioxide, carbon particles, and traces of hydrogen cyanide.

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

Urea extended phenol-formaldehyde resin (cured) (26104-55-6)
Oral LD50 Rat : 7 gm/kg
Oral LD50 Mouse : 7 gm/kg

Carcinogenicity**A: General Product Information**

The Occupational Safety and Health Administration (OSHA), National Toxicology Program (NTP), International Agency for Research on Cancer (IARC), and American Conference of Governmental Industrial Hygienists (ACGIH) have not classified this product in its entirety as a carcinogen.

B: Component Carcinogenicity**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))

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 (select "Health Safety and Environment").

Section 12 - Ecological Information
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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.

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Section 14 - Transportation Information

US DOT Information

Shipping Name: This product is not classified as a hazardous material for transport.

Section 15 - Regulatory Information

US Federal Regulations

A: General Product Information

No information on this product as a whole.

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)	85997-17-3	Yes	No	Yes	Yes	No	Yes

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 Regulatory Information

A: General Product Information

No information available for the product.

B: 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.

C: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	ENECS
Fiber Glass Wool	85997-17-3	Yes	Yes	Yes
Urea extended phenol-melamine formaldehyde resin (cured)	25212-25-3	Yes	No	No
Urea extended phenol-formaldehyde resin (cured)	25104-55-6	Yes	Yes	No

International Regulations

A: General Product Information

No information available.

B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Section 16 - Other Information

Other Information

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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
08/01/00	1001-1.0000	New MSDS authoring system.
01/08/01	1001-1.010	Minor regulatory update (per LOLI)
1/9/02	1001-2.0000	Update Sections 3, 11, 15 for IARC 2001 re-classification of fiber glass wool to Group 3, not classifiable as to carcinogenicity to humans.
08/05/02	1001-2.0001	Sect. 2, added acrylic resin for Formaldehyde-free product. Sect. 3 APPEARANCE, inserted "white" for Formaldehyde-free product.

This is the end of MSDS # 1001