

Material Safety Data Sheet

Monoglass[®] Fiber

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Section 1: Material Identification and Use:

MANUFACTURER: **MONOGLASS[®] INCORPORATED**
ADDRESS: 922 – 1200 West 73rd Avenue, Vancouver, B.C. Canada V6P 6G5
PHONE: 604-261-7712 (in North America 1-888-777-2966)
CONTACT:

TRADE NAME: MONOGLASS[®]
PRODUCT IDENTIFICATION: FIBERGLASS BUILDING INSULATION
CHEMICAL NAME: FIBROUS GLASS
CAS NUMBER: N/A
COMMON NAME: FIBERGLASS INSULATION

Section 2: Composition

INGREDIENTS	HAZARD	CAS NO.	PERCENTAGE	OSHA Permissible Exposure Levels
Fibrous Glass	Nuisance Dust	65997-17-3	99-100%	TWA (Total Dust) = 15 mg/m ³ TWA (Respirable Dust) = 5 mg/m ³
Dedusting Oil	N/A	N/A	<1%	N/A

Section 3: Physical Data

Boiling Point (°F): N/A
Vapor Pressure (mm Hg.): N/A
Vapor Density (Air = 1): N/A
Solubility in Water: None

Specific Gravity (H₂O) = 1: 2.6
Percent Volatile: <1%
By Volume (%):
Evaporation Rate: N/A

Section 4: Fire and Explosion Data

Flash Point: N/A
Flammability Limits: N/A
Auto-Ignition Temperature: N/A
Extinguishing Media: Water, foam, dry chemical
Special Fire-Fighting Procedure: None
Unusual Fire Hazards:

Fiberglass insulation is a non-flammable product. The packaging material will burn, and caution should be used when working close to the facing or packaged material with open flame. Chemicals in plastic packaging products that do not present a health hazard under normal conditions may be released during a fire. Toxic fumes and gases that may result from incomplete combustion include carbon monoxide, hydrogen chloride and low-level cyanides. In case of overexposure, remove to fresh air. If breathing is difficult, administer oxygen and consult a physician.

Section 5: Reactivity Data

Stability: Stable
Incompatibility: None
Hazardous Polymerization: Will not occur

(N/A: not applicable) (N/E: not established)

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Section 6: Health Hazards / Personal Protective Equipment

Primary Route of Entry:

Inhalation: Fiberglass wool may cause mechanical irritation of the upper respiratory tract. Use of a 2-strap NIOSH-Approved N-95 Filtering Face piece (disposable dust mask respirator), such as a 3M model 8210 (or higher) or equivalent is recommended when handling loose fill, when exposure is unknown or when fibers exceed the TLV of 1 f/cc. Operations which generate high airborne fiber concentrations (over 10 times the TLV) require additional respiratory protection.

Skin Contact: Direct contact with the skin may cause mechanical irritation. If irritation occurs, long sleeves, loose fitting clothing, gloves, and eye protection are recommended. Wash exposed areas with soap and water after handling. Wash clothes separately and rinse out washer after use.

- IARC: Group 3 - Not classifiable as to its carcinogenicity to humans
- ACGIH: A3 - Animal Carcinogen
- NTP: Suspect Carcinogen (Possible Select Carcinogen)

Following a thorough review of all the medical data available, the International Agency for Research on Cancer (IARC) has classified glass wool insulation as Group #3, "not classifiable as to carcinogenicity to humans". IARC has stated there is "no evidence of increased risks of lung cancer or of mesothelioma from occupational exposures during the manufacture of these materials, and inadequate evidence overall of any cancer risk."

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 earlier animal injection studies.

Section 7: Emergency and First Aid Procedures

Skin Contact: Do not rub. Wash with soap and water. Use skin cream to soothe irritation. Wash clothes separately. A shower after work is recommended. Irritation typically will not persist if good personal hygiene habits are followed.

Eye Contact: Flush with running water for at least 15 minutes. Use sterile eyewash to flush foreign bodies from eyes.

Inhalation: Remove from exposure.

If irritation persists in any of these situations, a physician should be consulted.

Section 8: Spill, Leak and Disposal Information

Avoid dust-generating means of clean up. Store packaged material away from sources of ignition and have fire-fighting equipment available. Dispose of scrap material according to federal, state and local regulations. This material is not regulated under hazardous waste regulations.

Section 9: Other Regulator Information

SARA Title III, SECTION 313: Our Monoglass[®] insulation product contains no "Toxic Chemicals", as defined by the Superfund Amendments and Reauthorization Act (SARA, Title III) of 1986.

Section 10: Preparation of M.S.D.S.

Prepared by: Product Safety Dept.

Date Prepared: February 1, 2009.

Phone: (604) 261-7712/ 1-888-777-2966

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Monoglass[®] Adhesive

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ADDRESS: 922 – 1200 West 73rd Avenue, Vancouver, B.C. Canada V6P 6G5
PHONE: 1-604-261-7712 (in North America 1-888-777-2966)
TRADE NAME: MONOGLASS BONDING ADHESIVE
MATERIAL NAME: G-2228
CHEMICAL FORMULA: COMPLEX MIXTURE
CHEMICAL FAMILY: POLY (VINYL ACETATE) EMULSION
PRODUCT USE: ADHESIVE
WHMIS CLASSIFICATION: N/A

Section 2: Hazardous Ingredients

Hazardous Ingredients	Concentration %	CAS Number	Exposure Limits	LD ₅₀ /LC ₅₀ Species & Route
Vinyl Acetate Polymer	75-85%	9003-20-7	N/A	N/A
Vinylalcohol Polymer	15-20%	25213-24-5	N/A	N/A

Section 3: Physical Data

Physical State: Liquid
Odour Threshold (ppm): N/E
Specific Gravity: 1.05
Boiling Point (°C): N/E
pH: 4.0 – 5.0
%Volatile (by weight): 55-57
Coefficient of Oil/Water Distribution: N/E
Odour/Appearance: White viscous liquid with sweet odour
Vapour Pressure (mm Hg): N/E
Vapour Density (air = 1): > 1
Freezing Point (°C): < 0
Evaporation Rate (Butyl Acetate = 1): < 1
Solubility in Water (20 °C): Miscible
Volatile Organic Compounds (VOC) 1.74 grams/liter (undiluted)

Section 4: Fire and Explosion Data

Flammability? No
Flashpoint & Method: Not Established
Sensitivity to Static Charge: None
Upper Explosion Limit (% by volume): N/E
Special Procedures: Wear self contained breathing apparatus and full protective equipment
Auto Ignition Temp (°C): N/E
Means of Extinction: Use CO₂, foam, water fog or dry chemicals
Lower Explosion Limit (% by volume): N/E
Explosive Power:
Hazardous Combustion Products: Incomplete combustion can yield low molecular weight hydrocarbons and carbon dioxide
Rate of Burning: N/E

Section 5: Reactivity Data

Chemical Stability: Yes
Incompatibility: No (Specify) None Established
Reactivity, and under what conditions: Will not occur
Hazardous Decomposition of Products: Incomplete combustion can yield low molecular weight hydrocarbons and carbon dioxide

(N/A : Not Applicable) (N/E : Not Established)

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Section 6: Toxicological Properties

Route of Entry:	Inhalation Acute: No	Eye Contact: Yes	Inhalation: Yes
	Skin Contact: Yes	Ingestion: Yes	Skin Absorption: No

Effects of Acute Exposure: Direct eye contact with product may cause irritation. Exposure to vapors and fumes in poorly ventilated areas may cause irritation of the nose, throat and respiratory tract.

Effects of Chronic Exposure: Prolonged or repeated contact may cause irritation.

LD₅₀ of Product (Species and Route): N/E LC₅₀ of Product (Species): N/E

Exposure Limits: N/E

Irritancy: As Above

Sensitization:

Carcinogenicity:

Synergistic Materials: None Known

Reproductive Effects:

Teratogenicity:

Mutagenicity:

Section 7: Preventive Measures

Respiratory: No special respiratory equipment is required when used under normal conditions.

Gloves: Wear rubber protective gloves

Eye: Use safety goggles when splash potential exists

Clothing: N/A

Footwear: N/A

Other:

Engineering Controls: Provide sufficient ventilation to maintain airborne concentrations below exposure guidelines.

Leak & Spill Procedure: If material is released or spilled, dam up to limit spreading. Mop up or absorb on inert material and place in containers. If spill occurs in closed area, ventilate. Keep out of sewers, watersheds, or water systems.

Waste Disposal: This product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in approved industrial landfill, consult your provincial or local authorities for proper disposal in the event more restrictive requirements apply.

Handling Procedures & Equipment: Keep container closed when not in use.

Shipping & Storage Requirements:

Protect from Freezing.

Section 8: First Aid Measures

Inhalation: Remove subject to fresh air.

Skin: Wash affected area with soap and water. Launder contaminated clothing before reuse.

Eye: Flush immediately with water for 15 minutes. Consult physician if irritation persists.

Ingestion: Induce vomiting. No adverse health effects are anticipated. Consult a physician.

Section 9: Preparation of M.S.D.S.

Last Reviewed: February 1, 2009. Prepared by Product Safety Department.

Date Prepared: February 1, 2009. Phone: (604) 261-7712 / 1-888-777-2966