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**MATERIAL SAFETY DATA SHEET (MSDS)**

**PRODUCT IDENTIFICATION:** Fiberglass building insulation products—cured batts, rolls, and board; laminated cured insulation products; fiberglass cured blowing wool insulation (EZ Attic™, Supercube®, Supercube II®, Supercube HD® and AgriGuard Wall Insulation®)

**CHEMICAL NAME:** Fibrous Glass

**CAS NUMBER:** N/A

**COMMON NAME:** Fiberglass Insulation

**LAST REVIEWED:** February 2012

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**SECTION I: COMPOSITION**

<u>INGREDIENTS</u>	<u>HAZARD</u>	<u>CAS NO.</u>	<u>%</u>	<u>OSHA PERMISSIBLE EXPOSURE LEVELS</u>	<u>ACGIH TLV</u>
Fibrous Glass	Nuisance Dust	65997-17-3	90-100%	TWA (Total Dust) = 15 mg/m <sup>3</sup> TWA (Respirable Dust) = 5 mg/m <sup>3</sup>	1 f/cc
Cured Organic Binding Material	N/A	25104-55-6	10-0%	N/A	
Formaldehyde		50-00-0	<0.01%	TWA=1 ppm (.5 ppm Action Level)	
Phenol		108-95-2	0.02%	TWA=5 ppm, 19 mg/m <sup>3</sup> (skin)	
Ammonia		7664-41-7	0.03%	TWA 50 ppm, 35 mg/m <sup>3</sup>	
Dedusting Oil	N/A	N/A	<1%	N/A	

**Adhesives used to adhere facings include:**

Kraft/Foil Faced products:

Mineral Oil, white	Mild Irritant	8042-47-5	5-10	TWA Mist = 5 mg/m <sup>3</sup>
Wax, polyethylene	Mild Irritant	9002-88-4	1-5	TWA (fume) = 2 mg/m <sup>3</sup>
Waxes, paraffin	Mild Irritant	8002-74-2	1-5	TWA (fume) = 2 mg/m <sup>3</sup> and hydrocarbons

Vinyl faced laminated products:

Aluminum nitrate -9-hydrate	Mild Irritant	7784-27-2	1-5	N/A
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The TWA TLV of 1 f/cc is a protection standard voluntarily adopted by the fiberglass industry and is a recommendation of ACGIH and California's ACAC.

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**SECTION II: PHYSICAL DATA**

<b>Boiling Point (°f)</b>	N/A	<b>Specific Gravity (H<sub>2</sub>O) = 1</b>	2.6	<b>Vapor Pressure (mm Hg.)</b>	N/A
<b>Percent Volatile By Volume</b>	<1%	<b>Vapor Density (Air=1)</b>	N/A	<b>Solubility in Water</b>	None
<b>Evaporation Rate</b>	N/A				
<b>Appearance and Odor:</b>	Resilient or solid structure containing glass fibers and binding materials used as blankets, boards, or loose-fill insulation. May have slight binder odor.				

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**SECTION III: FIRE & EXPLOSION DATA**

<b>Flash Point:</b>	N/A
<b>Flammability Limits:</b>	N/A
<b>Auto-Ignition Temperance:</b>	N/A
<b>Extinguishing Media:</b>	Water, foam, dry chemical

**Special Fire-fighting Procedure:** None

**Unusual Fire Hazards:** Fiberglass insulation is a non-flammable product. The kraft and foil facing and packaging material will burn; caution should be used when working close to the facing or packaged material with open flame. Chemicals in adhesives, facings or 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.

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#### SECTION IV: REACTIVITY / DECOMPOSITION DATA

**Stability:** Stable

**Incompatibility:** None

**Hazardous Polymerization:** Will not occur

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#### SECTION V: 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 Facepiece (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. Long sleeves, loose fitting clothing, gloves, and eye protection are recommended. If irritation occurs, wash exposed areas with soap and water after handling. Wash clothes separately and rinse out washer after each use. 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."

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#### SECTION VI: 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. Using sterile eye wash, flush foreign bodies from eyes.

**Inhalation:** Remove from exposure.

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

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#### SECTION VII: SPILL, LEAK AND DISPOSAL INFORMATION

Avoid dust-generating means of clean-up. Store faced or 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.

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#### SECTION VIII: OTHER REGULATORY INFORMATION

SARA Title III, SECTION 313: Our finished insulation products contain the following amounts of "Toxic Chemicals", as defined by the Superfund Amendments and Reauthorization Act (SARA, Title III) of 1986:

<u>Chemical Name</u>	<u>Cas No.</u>	<u>Percent by Weight</u>
Formaldehyde	50-00-0	<0.01%
Phenol	108-95-2	0.02%
Ammonia	7664-41-7	0.03%

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#### SECTION IX: DISCLAIMER

The information provided in this MSDS is accurate to the best of Guardian Building Products' knowledge and is provided in good faith. No warranty is given with respect to its accuracy and/or reliability. The information relates only to the particular product and not to the product when used in combination with any other materials. It is the user's responsibility to take proper precautions when using this product and ensure its own compliance with applicable local, state and federal laws and regulations.