

1: Identification

PRODUCT IDENTIFICATION:	Fiberglass building insulation products—cured batts, rolls, and board; laminated cured insulation products; fiberglass cured blowing wool insulation (Supercube II®, Supercube HD, Shake & Rake)
COMPANY:	Knauf Insulation 979 Batesville Rd. Suite B Greer, SC 29651 800-609-8373
CONTACT:	Health, Safety and Environment 517-630-2072
24-HOUR EMERGENCY RESPONSE INFORMATION:	Chemtrec 1-800-424-9300

2: Hazard Identification

WARNING

Eye, skin and respiratory tract irritant.

Hazard Statement

Inhalation: Fiberglass wool may cause mechanical irritation of the upper respiratory tract.

Skin Contact: Direct contact with the skin may cause mechanical irritation.

Eye Contact: Direct contact with the eyes may cause mechanical irritation.

3: Composition/Information On Ingredients

INGREDIENTS	HAZARD	CAS NO.	%	TLV*
Fibrous Glass	Nuisance Dust	65997-17-3	90-100%	1 f/cc
Cured Organic Binding Material	N/A	25104-55-6	10-0%	
Formaldehyde		50-00-0	<0.01%	
Phenol		108-95-2	0.02%	
Ammonia		7664-41-7	0.03%	
Dedusting Oil	N/A	N/A	<1%	

*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.

Adhesives used to adhere facings include:

Kraft/Foil Faced products:

Mineral Oil, white	Mild Irritant	8042-47-5	5-10
Wax, polyethylene	Mild Irritant	9002-88-4	1-5
Waxes, paraffin	Mild Irritant	8002-74-2	1-5

Vinyl faced laminated products:

Aluminum nitrate -9-hydrate	Mild Irritant	7784-27-2	1-5
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4: First Aid Measures

Skin Contact: Do not rub. Wash with soap and water. Use skin cream to sooth 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.

5: Fire-Fighting Measures

Flash Point: N/A

Flammability Limits: N/A

Auto-Ignition Temperance: N/A

Extinguishing Media: 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.

6: Accidental Release Measures

Cleanup: Avoid dust-generating means of clean-up.

7: Handling And Storage

Store faced or packaged material away from sources of ignition and have fire-fighting equipment available.

8: Exposure Controls/Personal Protection

Exposure Limits: Inhalation. Fiberglass wool may cause mechanical irritation of the upper respiratory tract. Use of a 2-strap NIOSH-Approved N-95 Filtering Facepiece respirator such as a 3M model 8210 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."

Ingredients	OSHA Permissible Exposure Levels
Fibrous Glass	TWA (Total Dust) = 15 mg/m ³ TWA (Respirable Dust) = 5 mg/m ³
Cured Organic Binding Material	N/A
Formaldehyde	TWA=1 ppm (.5 ppm Action Level)
Phenol	TWA=5 ppm, 19 mg/m ³ (skin)
Ammonia	TWA 50 ppm, 35 mg/m ³
Dedusting Oil	N/A

Adhesives used to adhere facings include:

Kraft/Foil Faced products:

Mineral Oil, white	TWA Mist = 5 mg/m ³
Wax, polyethylene	TWA (fume) = 2 mg/m ³
Waxes, paraffin	TWA (fume) = 2 mg/m ³ and hydrocarbons

Vinyl faced laminated products:

Aluminum nitrate -9-hydrate	N/A
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9: Accidental Release Measures

Boiling Point (°f): N/A	Specific Gravity (H₂O) = 1: 2.6
Vapor Pressure (mm Hg.): N/A	Percent Volatile By Volume: <1%
Vapor Density (Air=1): N/A	Solubility in Water: None
Evaporation Rate: N/A	

Appearance and Odor: Resilient or solid structure containing glass fibers and binding materials used as blankets, boards, or loose-fill insulation. May have slight binder odor.

10: Stability And Reactivity

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

11: Toxicological Information

Data not available.

12: Ecological Information

This material is not regulated under hazardous waste regulations.

13: Disposal Considerations

Dispose of scrap material according to federal, state and local regulations.

14: Transport Information

Reference Bill of Lading

15: 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%

16: Other Information

The information provided in this SDS is accurate to the best of Knauf Insulation's 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.

Revised September 2014