

Product name:	Glass Mineral Wool Insulation	Page:	1/13
Revision Date:	2015-08-04	Print date:	2015-08-06
Product No.:	KI_DP_107	SDS-ID:	CA-EN/1.0

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## **1. IDENTIFICATION**

### **Product identifier**

Product name: Glass Mineral Wool Insulation

Synonyms, trade names Acoustical/ IB Board, Acoustical Smooth Board, KN Series Insulation\*, KwikFlex™\*, Guardian (Unfaced and Faced) Building Insulation, Everbit (Unfaced and Faced) Building Insulation  
(\*See section 2, 8, 10)

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### **Recommended use and restrictions on use**

Thermal and/or acoustic insulation for use in technical applications, industrial applications and in building construction.

Uses advised against: None known.

### **Details of the supplier of the safety data sheet**

Head Office Knauf Insulation Ltd.  
4805 Lapiniere Blvd, Suite 3000  
Brossard, QC  
J4Z 0G2  
Tel: 800 626 7661  
sds@knaufinsulation.com  
www.knaufinsulation.ca

Region: Canada

### **Emergency telephone number**

Emergency telephone: 24hr: Chemtrec Tel: 800 424 9300

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## 2. HAZARDS IDENTIFICATION

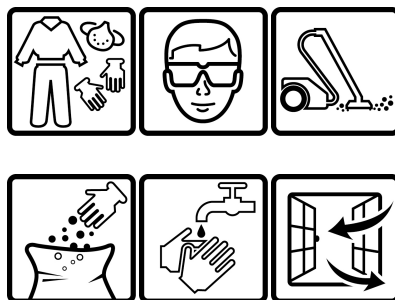
### Classification of the hazardous product

Classification according to WHMIS 2015: The product is not classified.

### Information elements

Contains: None  
Hazard pictogram: None  
Signal word: None  
Hazard statements: None  
Precautionary statements:  
- Prevention: None  
- Response: None  
- Storage: None  
- Disposal: None  
Supplemental label information: None

The following sentences and pictograms are printed on packaging: The mechanical effect of fibers in contact with skin may cause temporary itching.



[www.knaufinsulation.com/comfort-and-handling](http://www.knaufinsulation.com/comfort-and-handling)

### Other hazards

None

### Hazard summary

Physical Hazards: None

Health Hazards: Mechanical irritation of the skin, eyes and upper respiratory system.

Environmental hazards: None

Main symptoms: Contact with skin, eyes and upper respiratory system may cause mechanical irritation.

Biosoluble glass mineral wool is classified as a nuisance dust.

\* Heat-Up Precautions: When heated to temperatures above 400°F for the first time, release of binder components and binder decomposition products can occur which, in high concentrations, may irritate eyes and the respiratory system.- See section 8. & 10

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

<u>%:</u>	<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
83-97	-	Biosoluble glass mineral wool	-	(1), (2), (3)
3-17	-	Thermo set, inert polymer based on cured phenol formaldehyde resin	-	
<0.1	50-00-0.	Formaldehyde	-	-

Notes:

- (1) Specific chemical identity and/or exact percent concentration is withheld as trade secret.
- (2) Man made vitreous (silicate) fibers with random orientation with alkaline oxide and alkali earth oxide (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content greater than 18% by weight meeting the requirements of Note Q of regulation n° 1272/2008 and therefore not classified carcinogenicity.
- (3) All Knauf Insulation products covered by this SDS are independently certified by EUCEB to be manufactured using biosoluble glass formulations.

### 4. FIRST-AID MEASURES

#### Description of first-aid measures

##### General Information:

Show this Safety Data Sheet to the medical professional in attendance. If symptoms occur, follow first aid measures as appropriate.

Notes to Physician: None specific

Inhalation: Remove from exposure. Rinse the throat and clear dust from airways.

Skin contact: If mechanical irritation occurs, remove contaminated clothing and wash skin gently with cold water and soap.

Eye contact: Rinse abundantly with water for at least 15 minutes.

Ingestion: Drink plenty of water if accidentally ingested.

#### Most important symptoms and effects, both acute and delayed

Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble glass mineral wool is classified as a nuisance dust.

#### Indication of any immediate medical attention and special treatment needed

If any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice.

Medical attention/treatments: None specific

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## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Water, foam, carbon dioxide (CO<sub>2</sub>), and dry powder.

### Specific hazards arising from the hazardous product

Products do not pose a fire hazard in use; however, some packaging materials or facings may be combustible. Products of combustion from product and packaging - carbon dioxide, carbon monoxide and some trace gases such as ammonia, nitrogen oxides and volatile organic substances.

### Advice for fire-fighters

In large fires in poorly ventilated areas involving packaging materials respiratory protection / breathing apparatus may be required.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions: Minimize direct contact with skin in order to prevent mechanical itching. In dusty environments, use suitable respiratory protection such as 3M 8210, N95 or equivalent. Use glasses or goggles when working with mineral wool insulation above shoulder height or in dusty environments. Where possible, use natural ventilation during installation in order to minimize dust levels.

After contact with the product, rinse skin in cold water to reduce potential effects of mechanical itching. Dispose of surplus product in accordance with local regulations.

Emergency procedures: Use personal protection recommended in Section 8 of the SDS.

### Environmental precautions

Not relevant

### Methods and material for containment and cleaning up

In dusty environments, use vacuum equipment where possible to minimize dust levels.

### Reference to other items

For personal protection, see section 8. For waste disposal, see section 13.

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## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

Assure proper respiratory protection if potential dust exposure exceeds occupational exposure limits.

### **Conditions for safe storage, including any incompatibilities**

To ensure optimum product performance; when packaging is removed or opened; products should be stored inside or covered to protect them from ingress of rain water or snow.  
Storage arrangements should ensure stability of stacked products and use on a first in first out basis (FIFO) is recommended.

### **Specific end-use(s)**

Thermal and/or acoustic insulation for use in technical applications, industrial applications and in building construction.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Canada

Occupational exposure limits:

<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>As:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
-	Glass wool fibers	-	2 fibres/cm <sup>3</sup>	TWA	-	Quebec
-	Glass wool fibers	-	1 f/cc	TWA	Ont	Ontario
-	Glass wool fibers	-	1 f/cc	TWA	-	BC
-	Glass wool fibers	-	1 f/cc	TWA	-	Alberta
-	Particulates not otherwise regulated (PNOR), total dust	-	10 mg/m <sup>3</sup>	TWA	-	Quebec
-	Particulates not otherwise regulated (PNOR), total dust	-	10 mg/m <sup>3</sup>	TWA	-	Alberta
-	Particulates not otherwise regulated (PNOR), respirable fraction	-	3 mg/m <sup>3</sup>	TWA	-	Alberta

Notes:

Ont: listed in Table 1 of Ontario Regulation 490/09.  
- Biosoluble glass mineral wool - see section 3

### Exposure controls

#### Engineering measures:

Maintain sufficient mechanical or natural ventilation to assure fiber concentrations remain below occupational exposure limits. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices.

#### Eye protection:

Use glasses or goggles when working with mineral wool insulation above shoulder height or in dusty environments.

#### Skin protection:

Minimize direct contact with skin in order to prevent mechanical itching.

#### Respiratory equipment:

In dusty environments, use suitable respiratory protection.

#### Hygiene measures:

After contact with the product, rinse skin in cold water to reduce potential effects of mechanical itching.

#### Thermal hazards:

Not relevant

#### \* Heat-Up Precautions:

When heated to temperatures above 400°F for the first time, release of binder components and binder decomposition products can occur which, in high concentrations, may irritate eyes and the respiratory system. The duration of release is dependant upon the thickness of the insulation, binder content and the temperature applied. Adequate ventilation should be provided. In confined spaces or where ventilation is not possible, occupants should wear appropriate self-contained breathing apparatus.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance: Solid

Form: Rolls, loose fibre, Panel

Colour: Yellow

Odor: Not relevant

Odour threshold: Not relevant

pH: Not relevant

Melting point / freezing point: Not relevant

Initial boiling point and boiling range: Not relevant

Flash point: Not relevant

Auto-ignition temperature (°F): Not relevant

Flammability (solid, gas): Not relevant

Flammability limit - lower (%): Not relevant

Flammability limit - upper (%): Not relevant

Vapor pressure: Not relevant

Vapour density: Not relevant

Evaporation rate: Not relevant

Relative density: 7 – 96 kg/m<sup>3</sup>

Partition coefficient (n-octanol/water): Not relevant

Solubility: Generally chemically inert and insoluble in water.

Decomposition temperature (°F): Not relevant

Viscosity: Not relevant

Other data: Nominal diameter of fibers 3 - 8µm

Length weight geometric mean diameter less 2 standard errors  
< 6 µm

Orientation of fibers: Random

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## 10. STABILITY AND REACTIVITY

### Reactivity

None

### Chemical stability

Binder will decompose above 400°F

### Possibility of hazardous reactions

None

### Conditions to avoid

Heating above 400°F

### Incompatible materials

Hydrofluoric acid will react with and dissolve glass.

### Hazardous decomposition products

None in normal conditions of use.

When heated to temperatures above 400°F for the first time, release of binder components and binder decomposition products can occur which, in high concentrations, may irritate eyes and the respiratory system.

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## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Ingestion: Non-hazardous when ingested.  
Inhalation: Mechanical irritation to upper respiratory tract.  
Skin contact: Mechanical irritation to skin.  
Eye contact: Mechanical irritation to eyes.

Symptoms: Contact with skin, eyes and upper respiratory system may cause mechanical irritation.  
Biosoluble glass mineral wool is classified as a nuisance dust.

### Information on toxicological effects:

Acute toxicity: No data were identified for the product as a whole.

Data are for constituents:

Product name: Thermo set, inert polymer based on cured phenol formaldehyde resins

Result - LD50

Species - N/A.

Dose - N/A.

Exposure - N/A.

Product name: Biosoluble glass mineral wool

Result - LD50

Species - N/A.

Dose - N/A.

Exposure - N/A.

Serious eye damage/irritation: May cause mechanical irritation to eyes.

Skin Corrosion/Irritation: May cause mechanical irritation to skin.

Respiratory or skin sensitization: No data were identified for this product or its constituents.

Germ cell mutagenicity: No data were identified for this product or its constituents.

Carcinogenicity: Results from a biopersistence test by intratracheal instillation has shown that fibers in this product longer than 20  $\mu\text{m}$  have a weighted half-life less than 40 days, thus this product is not classified as a carcinogen. None of the components of this product are listed by IARC as known or suspected carcinogens.

Reproductive Toxicity: No data were identified for this product or its constituents.

Developmental Effects: No data were identified for this product or its constituents.

STOT - Single exposure: No data were identified for this product or its constituents.

STOT - Repeated exposure: No data were identified for this product or its constituents.

Aspiration hazard: Not relevant

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

This product is not ecotoxic to air, water or soil, by composition.

### Persistence and degradability

Inert inorganic product with Thermo set, inert polymer based on cured phenol formaldehyde resins; 3-17%

### Bioaccumulative potential

Will not bio-accumulate.

### Mobility in soil

Not considered mobile. Less than 1% leachable organic carbon if landfilled.

### Results of PBT and vPvB assessment

Not relevant

### Other adverse effects

None known.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Waste from residues: Dispose of in accordance with all applicable regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Disposal methods This product is not regulated under RCRA Hazardous Waste Regulations. May be disposed in landfill. If unsure, contact your local public health department or the local landfill regulators.

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## 14. TRANSPORT INFORMATION

### UN number

Not regulated

### UN proper shipping name

Not regulated

### Transport hazard class(es)

Not regulated

### Packing group

Not regulated

### Environmental hazards

Not regulated

### Special precautions for user

Not regulated

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not regulated

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## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations specific to the product

WHIMS: Non-controlled product.

Domestic Substance List (DSL): All components listed or exempt.

Non-Domestic Substances List (NDSL): All components listed or exempt.

National Pollutant Release Inventory: All components listed or exempt.

CEPA -Priority Substances List: All components listed or exempt.

In accordance with industry practice, Knauf Insulation has decided to continue to provide its customers with the appropriate information for the purpose of assuring safe handling and use of mineral wool throughout the product life.

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## 16. OTHER INFORMATION

Label in accordance with WHMIS 2015: This product is not classified as hazardous.

Abbreviations and acronyms used in the safety data sheet:

CAS: Chemical Abstract Service  
EC50/90: Effective Concentration (median / 90th percentile)  
EUCEB: European Certification Board for Mineral Wool Products  
IARC: International Agency for Research on Cancer  
IDLH: Immediately Dangerous to Life and Health  
LC50/90: Lethal Concentration (median / 90th percentile)  
NOEC: No Observed Effect Concentration  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
PBT: Persistent, Bioaccumulative and Toxic  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Information System  
DSL: Domestic Substance List  
NDSL: Non-Domestic Substances List  
CEPA: Canadian Environmental Protection Act

All products manufactured by Knauf Insulation are made of non-classified fibers and are certified by EUCEB.

Products meeting EUCEB certification requirements can be recognised by the EUCEB logo printed on the packaging

Further information can be obtained from:

[www.euceb.org](http://www.euceb.org)  
[www.knaufinsulation.com](http://www.knaufinsulation.com)



Additional information: Change to Sections: New document format Date: 2015-08-04

Moreover, in 2001, the IARC, reclassified glass mineral wool fibers from Group 2B (possibly carcinogenic) to «not classifiable as to their carcinogenicity to humans (Group 3)». (See Monograph Vol 81, <http://monographs.iarc.fr/>).

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The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

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