

Product name:	Uncured Glass Mineral Wool Insulation	Page:	1/15
Revision Date:	2015-10-27	Print date:	2015-10-27
Product No.:	KI_DP_108	SDS-ID:	CA-EN/1.0

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## 1. IDENTIFICATION

### **Product identifier**

**Product name:** Uncured Glass Mineral Wool Insulation

**Synonyms, trade names** Amber Uncured Blanket Insulation, Amber Uncured Blanket Insulation XLE, Black Uncured Blanket Insulation, Black Uncured Blanket Insulation SR

**Revision:** Date: 2015-10-27

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

**Uses advised against:** 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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Product name: Uncured Glass Mineral Wool Insulation  
Revision Date: 2015-10-27  
Product No.: KI\_DP\_108

Page: 2/15  
Print date: 2015-10-27  
SDS-ID: CA-EN/1.0

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## 2. HAZARDS IDENTIFICATION

### Classification of the hazardous product

Classification according to WHMIS 2015:  
Skin sensitization: Category 1  
Carcinogenicity: Category 1

### Label elements

Contains: None  
Hazard pictogram:



### Signal word

Danger

### Hazard statements in full:

May cause cancer by inhalation.  
May cause an allergic skin reaction.

### Precautionary Statements:

- Prevention: Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust.  
Contaminated work clothing should not be allowed out of the workplace.
  - Response: IF ON SKIN (or hair): Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Specific treatment (see Section 4 of the SDS).  
Wash contaminated clothing before reuse.  
IF exposed or concerned: Get medical advice/attention.
  - Storage: Store locked up.
  - Disposal: Dispose of contents/container in accordance with local, regional, national, and/or international regulations.  
Supplemental label information: - See section 16.
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Product name:	Uncured Glass Mineral Wool Insulation	Page:	3/15
Revision Date:	2015-10-27	Print date:	2015-10-27
Product No.:	KI_DP_108	SDS-ID:	CA-EN/1.0

---

### **Other hazards**

None

#### Hazard summary

Physical Hazards: None

Health Hazards: May cause cancer by inhalation. May cause an allergic skin reaction. May cause 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. Repeated or prolonged exposure may cause an allergic skin reaction and cancer via inhalation.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **Substances**

<u>%:</u>	<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
83-91	-	Biosoluble glass mineral wool	-	(1), (2), (3)
3-14	25104-55-6	Urea extended phenol formaldehyde resin	-	(1)
3-6	7732-18-5	Water	-	-
0.2 max	50-00-0.	Formaldehyde	-	-
0.65 max	108-95-2.	Phenol	-	-

#### 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.

Product name:	Uncured Glass Mineral Wool Insulation	Page:	4/15
Revision Date:	2015-10-27	Print date:	2015-10-27
Product No.:	KI_DP_108	SDS-ID:	CA-EN/1.0

---

## 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: Wash with mild soap and warm water after each exposure. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. 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. Repeated or prolonged exposure may cause an allergic skin reaction and cancer via inhalation.

### 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

## 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. In fire conditions, the binder will decompose giving off carbon monoxide, carbon dioxide, carbon particulate and traces of hydrogen cyanide from pyrolysis of the resin.

### Advice for fire-fighters

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

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Product name:	Uncured Glass Mineral Wool Insulation	Page:	5/15
Revision Date:	2015-10-27	Print date:	2015-10-27
Product No.:	KI_DP_108	SDS-ID:	CA-EN/1.0

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions: Minimize direct contact with skin in order to prevent mechanical itching. Avoid breathing dust. In dusty environments, use suitable respiratory protection such as 3M 8210, N95 or equivalent. Wear protective gloves/protective clothing/eye protection/face protection Wash thoroughly after handling. 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.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Ensure adequate ventilation. Avoid breathing dust. Assure proper respiratory protection if potential dust exposure exceeds occupational exposure limits. Wear protective gloves/protective clothing/eye protection/face protection Wash thoroughly after handling.

### 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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Product name: Uncured Glass Mineral Wool Insulation  
 Revision Date: 2015-10-27  
 Product No.: KI\_DP\_108

Page: 6/15  
 Print date: 2015-10-27  
 SDS-ID: CA-EN/1.0

## 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	-	1 f/cc	TWA	-	BC	
-	Glass wool fibers	-	1 f/cc	TWA	-	Alberta	
-	Glass wool fibers	-	1 fiber/ml	TWA	A3	Newfoundland-Labrador	
-	Glass wool fibers	-	1 fiber/ml	TWA	A3	Manitoba	
-	Glass wool fibers	-	1 fiber/ml	TWA	A3	Nova Scotia	
-	Glass wool fibers	-	1 f/cc	8h	-	NWT	
-		-	3 f/cc	15min	-		
-	Glass wool fibers	-	2 fibres/cm <sup>3</sup>	TWA	-	Quebec	
-	Glass wool fibers	-	1 f/cc	TWA	Ont	Ontario	
-	Glass wool fibers	-	1 fiber/ml	TWA	A3	Prince Edward Island	
-	Mineral Wool Fibres, respirable	-	10 mg/m <sup>3</sup>	8h	-	Yukon	
-	Glass wool fibers	-	1 f/cc	8h	-	Saskatchewan	
-		-	3 f/cc	15min	-		
-	Glass wool fibers, respirable fraction	-	1 f/cc	8h	-	Saskatchewan	
-		-	3 f/cc	15min	-		
-	Glass wool fibers	-	1 f/cc	8h	-	Nunavut	
-		-	3 f/cc	15min	-		
-	Glass wool fibers	-	1 fiber/ml	8h	A3; ACGIH2015	New Brunswick	
-	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	3	Alberta	
-	Particulates not otherwise regulated (PNOR), respirable fraction	-	3 mg/m <sup>3</sup>	TWA	3	Alberta	
50-00-0	Formaldehyde	-	2 ppm	3 mg/m <sup>3</sup>	C	C2	Quebec
50-00-0	Formaldehyde	-	0.75 ppm	0.9 mg/m <sup>3</sup>	TWA	A2	Alberta
		-	1 ppm	1.3 mg/m <sup>3</sup>	C	A2	
50-00-0	Formaldehyde	-	0.3 ppm		TWA	A2; 1; S	BC
		-	1 ppm		C	A2; 1; S	
50-00-0	Formaldehyde	-	1 ppm		STEL	Ont; 15min	Ontario
		-	1.5 ppm		C	Ont	
50-00-0	Formaldehyde	-	0.3 ppm		CLV	DSEN; RSEN; A2	Newfoundland-Labrador

Product name: Uncured Glass Mineral Wool Insulation  
 Revision Date: 2015-10-27  
 Product No.: KI\_DP\_108

Page: 7/15  
 Print date: 2015-10-27  
 SDS-ID: CA-EN/1.0

50-00-0	Formaldehyde	-	0.3 ppm		CLV	DSEN; RSEN; A2	Manitoba
50-00-0	Formaldehyde	-	0.3 ppm		CLV	DSEN; RSEN; A2	Nova Scotia
50-00-0	Formaldehyde	-	0.3 ppm		C	S; Schedule R	NWT
50-00-0	Formaldehyde	-	0.3 ppm		CLV	DSEN; RSEN; A2	Prince Edward Island
50-00-0	Formaldehyde	-	2 ppm	3 mg/m3	C	SEN, R	Yukon
50-00-0	Formaldehyde	-	0.3 ppm		C	SEN; T20	Saskatchewan
50-00-0	Formaldehyde	-	0.3 ppm		C	S; Schedule R	Nunavut
50-00-0	Formaldehyde	-	0.5 ppm		8h	New Brunswick	New Brunswick
		-	1.5 ppm		15min	New Brunswick;	
108-95-2	Phenol	-	5 ppm	19 mg/m3	TWA	Pc	Quebec
108-95-2	Phenol	-	5 ppm		TWA	Skin; ACGIH	Ontario
108-95-2	Phenol	-	5 ppm		TWA	Skin	BC
108-95-2	Phenol	-	5 ppm	19 mg/m3	TWA	1	Alberta
108-95-2	Phenol	-	5 ppm		TWA	Skin; A4; BEI	Newfoundland- Labrador
108-95-2	Phenol	-	5 ppm		TWA	Skin; A4; BEI	Manitoba
108-95-2	Phenol	-	5 ppm		TWA	Skin; A4; BEI	Nova Scotia
108-95-2	Phenol	-	5 ppm		8h	Skin	NWT
		-	7.5 ppm		15min	Skin;	
108-95-2	Phenol	-	5 ppm		TWA	Skin; A4; BEI	Prince Edward Island
108-95-2	Phenol	-	5 ppm	19 mg/m3	8h	Skin	Yukon
		-	10 ppm	38 mg/m3	15min	Skin;	
108-95-2	Phenol	-	5 ppm		8h	Skin	Saskatchewan
		-	7.5 ppm		15min	Skin;	
108-95-2	Phenol	-	5 ppm		8h	Skin	Nunavut
		-	7.5 ppm		15min	Skin;	
108-95-2	Phenol	-	5 ppm	19 mg/m3	8h	ACGIH1997	New Brunswick

Product name:	Uncured Glass Mineral Wool Insulation	Page:	8/15
Revision Date:	2015-10-27	Print date:	2015-10-27
Product No.:	KI_DP_108	SDS-ID:	CA-EN/1.0

---

**Notes:**

(A3) - Fibers longer than 5 µm; diameter less than 3 µm; aspect ratio greater than 5:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective) phase contrast illumination.  
Ont: listed in Table 1 of Ontario Regulation 490/09.  
3: Based on irritation effects. Adjustment to compensate for unusual work schedules is not required.  
ACGIH: Carcinogen List.  
C2: Carcinogenic effect suspected in humans.  
A2: Suspected Human Carcinogen.  
1: Substance may be readily absorbed through intact skin.  
1: Carcinogenic to humans (IARC).  
S: Sensitizer.  
DSEN: Dermal Sensitization.  
RSEN: Respiratory Sensitization.  
Schedule R: Substance is also listed in Schedule R "Designated Chemical and Biological Substances".  
SEN: Sensitizer.  
R: Adverse reproductive effect.  
T20: substance is also in Table 20 and subject to Sections 306 and 311 of The Occupational Health and Safety Regulations, 1996.  
Pc: SKIN (percutaneous).  
SKIN: Danger of cutaneous absorption.  
(A4) - Not classified as a Human Carcinogen  
BEI: Biological Exposure Index.  
(A2) - Suspected Human Carcinogen

- 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. Gloves suitable for protection from chemicals are recommended to minimize effects from uncured binder and fibers. Wash work clothes separately from other clothing, towels and linens to prevent fiber migration. Rinse washer thoroughly.

**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

**Environmental Exposure Controls:** Not relevant

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Product name: Uncured Glass Mineral Wool Insulation  
Revision Date: 2015-10-27  
Product No.: KI\_DP\_108

Page: 9/15  
Print date: 2015-10-27  
SDS-ID: CA-EN/1.0

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance: Solid

Form: Rolls, loose fiber, Panel

Colour: White / Yellow / Black

Odour: Phenol formaldehyde odour

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

Vapour 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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Product name: Uncured Glass Mineral Wool Insulation  
Revision Date: 2015-10-27  
Product No.: KI\_DP\_108

Page: 10/15  
Print date: 2015-10-27  
SDS-ID: CA-EN/1.0

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## 10. STABILITY AND REACTIVITY

### **Reactivity**

None

### **Chemical stability**

This is a stable, non-reactive product.

### **Possibility of hazardous reactions**

None

### **Conditions to avoid**

None

### **Incompatible materials**

Hydrofluoric acid will react with and dissolve glass.

### **Hazardous decomposition products**

Thermal decomposition of the resin may include carbon dioxide, carbon monoxide, and traces of carbon particulate.

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Product name:	Uncured Glass Mineral Wool Insulation	Page:	11/15
Revision Date:	2015-10-27	Print date:	2015-10-27
Product No.:	KI_DP_108	SDS-ID:	CA-EN/1.0

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## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Ingestion: Non-hazardous when ingested.

Inhalation: Mechanical irritation to upper respiratory tract. Prolonged and repeated exposure may cause cancer.

Skin contact: Mechanical irritation to skin. Repeated or prolonged exposure may cause an allergic skin reaction.

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. Repeated or prolonged exposure may cause an allergic skin reaction and cancer via inhalation.

Information on toxicological effects:

Acute toxicity: No data were identified for the product as a whole. Formaldehyde was found to be corrosive to the eyes of rabbits. Formaldehyde was sensitizing in the guinea pig maximization test and the local lymph node assay with mice; however, there was no evidence of respiratory sensitization in various studies in mice.

Data are for constituents:

Formaldehyde.  
Result - LD50  
Species - Rat  
Dose - 400 ppm  
Exposure - Inhalation.

Formaldehyde.  
Result - LD50  
Species - Rat  
Dose - 640 - 800 mg/kg  
Exposure - Oral

Reproductive Toxicity: No data were identified for the product as a whole. The uncured resin contains up to 0.2 % free formaldehyde. The International Agency for Research on Cancer (IARC) has classified formaldehyde as a Group 1 human carcinogen (June 2004). Formaldehyde is not regarded as a mutagen. Formaldehyde did not cause reproductive and/or developmental effects when tested in animals. Repeated formaldehyde exposure caused toxic effects only in the tissues of direct contact after inhalation, oral or dermal exposure characterised by local cytotoxic destruction and subsequent repair of the damage. The typical locations of lesions in experimental animals were the nose after inhalation, the stomach after oral administration and the skin after dermal application.

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Product name: Uncured Glass Mineral Wool Insulation  
Revision Date: 2015-10-27  
Product No.: KI\_DP\_108

Page: 12/15  
Print date: 2015-10-27  
SDS-ID: CA-EN/1.0

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

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

### Persistence and degradability

No data available for this product or its constituents.

### Bioaccumulative potential

No data available for this product or its constituents.

### Mobility in soil

No data available for this product or its constituents.

### 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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Product name: Uncured Glass Mineral Wool Insulation  
Revision Date: 2015-10-27  
Product No.: KI\_DP\_108

Page: 13/15  
Print date: 2015-10-27  
SDS-ID: CA-EN/1.0

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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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Product name: Uncured Glass Mineral Wool Insulation  
Revision Date: 2015-10-27  
Product No.: KI\_DP\_108

Page: 14/15  
Print date: 2015-10-27  
SDS-ID: CA-EN/1.0

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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: Phenol, Formaldehyde

CEPA -Priority Substances List: Phenol, Formaldehyde

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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Product name:	Uncured Glass Mineral Wool Insulation	Page:	15/15
Revision Date:	2015-10-27	Print date:	2015-10-27
Product No.:	KI_DP_108	SDS-ID:	CA-EN/1.0

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## 16. OTHER INFORMATION

Label in accordance with WHMIS 2015: The product is classified as hazardous.

Abbreviations and acronyms used in the safety data sheet:

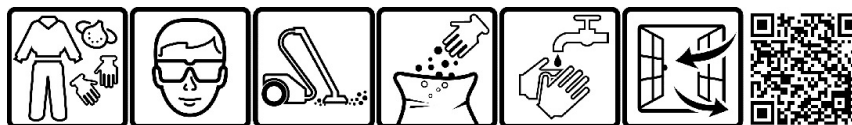
ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Service  
EC50/90: Effective Concentration (median / 90th percentile)  
EUCEB: European Certification Board for Mineral Wool Products  
IARC: International Agency for Research on Cancer  
IDLH: Immediately Dangerous 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)



Key literature references and sources for data: [www.knaufinsulation.com/comfort-and-handling](http://www.knaufinsulation.com/comfort-and-handling)

Additional information: New document format Date: 2015-10-27

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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