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Revision : 3.0
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SAFETY DATA SHEET

Blowing Fiberglass

According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR)

1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name Blowing Fiberglass

Product number KI_DP_109

Other means of identification None.

Synonyms; Common Names Jet Stream Ultra, EcoFill Wx, EXPERT Blowing Insulation, Manufactured Housing Blowing Insulation, Jet Stream® MAX, AtticGuard, Guardian, Guardian by Knauf Insulation, Supafil Frame US

Recommended use of the chemical and restrictions on use

Identified Uses 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

Supplier Knauf Insulation Inc.
Knauf Insulation Inc.
One Knauf Drive
Shelbyville
IN 46176-1496
Tel: 800 825 4434

www.knaufnorthamerica.com
sds@knaufinsulation.com

Region Canada

Emergency telephone number

Emergency phone number 24hrs: Chemtrec Tel: 800 424 9300

SECTION 2: Hazards identification

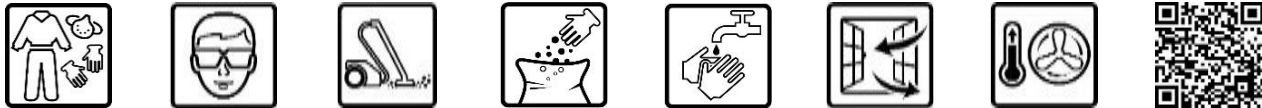
Classification of the substance or mixture

WHMIS Regulatory Status	Not classified according to WHMIS
Physical hazards	Not classified
Health hazards	Not classified
Environmental hazards	Not classified

Label elements

Hazard statements	Not classified
Contains	None.
Hazard pictograms	None.
Signal word	None.
Precautionary statements	None.
Supplemental label information	None.

The following sentences and pictograms apply to this product:



<http://www.knaufinsulation.com/comfort-and-handling>

Other hazards

Physical hazards	None.
Health hazards	Mechanical irritation of the skin, eyes and upper respiratory system.
Environmental hazards	None.
Most important symptoms/effects	Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble Fiberglass is classified as a nuisance dust by OSHA.
Persistent Bioaccumulative Toxic	Not relevant

SECTION 3: Composition/information on ingredients

Mixtures

Biosoluble Fiberglass	(1)(2)	98 - 99%
CAS number	—	
Classification	Not classified	
Ingredient notes	<p>(1) 650-016-00-2 - Man made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content greater than 18% by weight meeting the requirements of Note Q of regulation n° 1272/2008 and therefore not classified as carcinogenic.</p> <p>(2) All Knauf Insulation products covered by this SDS are independently certified by EUCEB to be manufactured using biosoluble glass formulations.</p>	
Anti-dust, antistatic and hydrophobic		1 - 2 %
CAS number	—	
Classification	Not classified	

Possible colorant

CAS number

—

< 0.5% w/w

Classification**Not classified**

Full text of R-phrases: see section 16

Specific chemical identity and/or exact percent concentration is withheld as trade secret.

SECTION 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.

Note to physician :

No specific measures.

Inhalation

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

Ingestion

Most important symptoms/effects

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.

Most important symptoms and effects, both acute and delayed**General information**Mechanical irritation of the skin, eyes and upper respiratory system.
Biosoluble Fiberglass is classified as a nuisance dust by OSHA.**Indication of any immediate medical attention and special treatment needed****General information**

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

Specific treatments

No specific measures.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**Water, foam, carbon dioxide (CO₂), and dry powder.**Unsuitable extinguishing media**

None.

Special hazards arising from the substance or mixture**General information**

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 firefighters**General information**

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

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures****Personal precautions**

Minimise 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 fiberglass insulation above shoulder height or in dusty environments. Where possible, use natural ventilation during installation in order to minimise 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.

Use personal protection recommended in Section 8 of the SDS.

Environmental precautions

Environmental precautions Not relevant

Methods and material for containment and cleaning up

Methods for cleaning up Vacuum cleaner or dampen down with water spray prior to brushing up.

Reference to other sections For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Storage precautions 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)

Specific end use(s) Thermal and/or acoustic insulation for use in :technical applications, industrial applications and in building construction.

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits Biosoluble Fiberglass

Long-term exposure limit (8-hour TWA): New Brunswick (Notes: (A3), ACGIH 2015) 1 f/cc Glass wool fibers
Long-term exposure limit (8-hour TWA): Saskatchewan 1 f/cc Glass wool fibers
Short-term exposure limit (15-minute): Saskatchewan 3 f/cc Glass wool fibers
Long-term exposure limit (8-hour TWA): Nunavut 1 f/cc Glass wool fibers
Short-term exposure limit (15-minute): Nunavut 3 f/cc Glass wool fibers
Long-term exposure limit (8-hour TWA): Newfoundland-Labrador (Note: (A3)) 1 f/cc Glass wool fibers
Long-term exposure limit (8-hour TWA): Manitoba (Note: (A3)) 1 f/cc Glass wool fibers
Long-term exposure limit (8-hour TWA): Nova Scotia (Note: (A3)) 1 f/cc Glass wool fibers
Long-term exposure limit (8-hour TWA): Prince Edward Island (Note: (A3)) 1 f/cc Glass wool fibers
Long-term exposure limit (8-hour TWA): Yukon 10 mg/m³ Mineral wool fibers, respirable
Long-term exposure limit (8-hour TWA): NWT 1 f/cc Glass wool fibers
Short-term exposure limit (15-minute): NWT 3 f/cc Glass wool fibers
Long-term exposure limit (8-hour TWA): Quebec 2 f/cc Glass wool fibers
Long-term exposure limit (8-hour TWA): Alberta 1 f/cc Glass wool fibers
Long-term exposure limit (8-hour TWA): BC 1 f/cc Glass wool fibers
Long-term exposure limit (8-hour TWA): Ontario (Note: Ont) 1 f/cc Glass wool fibers
Long-term exposure limit (8-hour TWA): Alberta (Note: (3)) 10 mg/m³ Particulates not otherwise regulated (PNOR), total dust
Long-term exposure limit (8-hour TWA): Alberta (Note: (3)) 3 mg/m³ Particulates not otherwise regulated (PNOR), respirable fraction
Long-term exposure limit (8-hour TWA): Quebec 10 mg/m³ Particulates not otherwise regulated (PNOR), total dust

Exposure limit values have been established by many authorities. Check on limit values that apply in your local situation

Ingredient 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.
ACGIH Carcinogen List.
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.

Biosoluble Fiberglass - see section(s) : 3.

Exposure controls/personal protection

Appropriate engineering controls Maintain sufficient mechanical or natural ventilation to assure fiber concentrations remain below PEL/TLV. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices.

Eye/face protection Use glasses or goggles when working with fiberglass insulation above shoulder height or in dusty environments.

Other skin and body protection Minimize direct contact with skin in order to prevent mechanical itching.

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

Respiratory protection In dusty environments, use suitable respiratory protection.

Environmental exposure controls Not relevant

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Loose fibre.
Color	White / Grey / Blue
Odor	Not relevant
Odor threshold	No data available
pH	Not relevant
Melting point	Not relevant
Initial boiling point and range	Not relevant
Flash point	Not relevant
Evaporation rate	Not relevant
Flammability (solid, gas)	Not relevant
Upper/lower flammability or explosive limits	Not relevant
Vapor pressure	Not relevant
Vapour density	Not relevant
Relative density	≈ 161.4 kg/m ³
Solubility	Generally chemically inert and slightly soluble in water.
Auto-ignition temperature	Not relevant

Decomposition temperature	Not relevant
Viscosity	Not relevant
Explosive properties	Not relevant
Oxidizing properties	Not relevant

Other information

Devitrification temperature	1832°F
Softening temperature	1112°F
Nominal diameter of fibres	2 - 5 µm
Length weight geometric mean diameter less 2 standard errors	< 6 µm

Orientation of fibres	Random
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SECTION 10: Stability and reactivity

Reactivity	None.
Chemical stability	Binder will decompose above 200°C (400°F).
Possibility of hazardous reactions	Stable in normal conditions of use.
Conditions to avoid	None.
Incompatible materials	Hydrofluoric acid will react with and dissolve glass.

Hazardous decomposition products

None under normal use

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity (oral) - LD50 oral	No data were identified for the product as a whole. Data are for constituents: Biosoluble fiberglass - Not applicable. Anti-dust, antistatic and hydrophobic. - Not applicable. Possible colorant. - Not applicable.
Acute toxicity (dermal) - LD50 dermal	No data were identified for the product as a whole. Data are for constituents: Biosoluble fiberglass - Not applicable. Anti-dust, antistatic and hydrophobic. - Not applicable. Possible colorant. - Not applicable.
Acute toxicity (inhalation) - LC50 Inhalation	No data were identified for the product as a whole. Data are for constituents: Biosoluble fiberglass - Not applicable. Anti-dust, antistatic and hydrophobic. - Not applicable. Possible colorant. - Not applicable.
Skin corrosion/irritation	May cause mechanical irritation to skin
Serious eye damage/irritation	May cause mechanical irritation to eyes.
Respiratory sensitization	No data were identified for this product or its constituents.
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	SWA / WES requirements exempt biopersistent fibres as defined by notes. Results from a biopersistence test in line with the notes has shown that fibres in this product longer than 20 µm have a weighted half-life less than 40 days and meet the "Nota Q" requirements, thus this product is not classified as a carcinogen. None of the components of this product Reproductive toxicity are listed as a carcinogen.
Reproductive toxicity	
Reproductive toxicity - Fertility	No data were identified for this product or its constituents.
Developmental toxicity	No data were identified for this product or its constituents.
Specific target organ toxicity - single exposure	No data were identified for this product or its constituents.
Specific target organ toxicity - repeated exposure	No data were identified for this product or its constituents.
Aspiration hazard	Not relevant
Inhalation	Mechanical irritation to upper respiratory tract.
Ingestion	Non-hazardous when ingested.
Skin contact	Mechanical irritation to skin.
Eye contact	Mechanical irritation to eyes.
Most important symptoms/effects	Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble Fiberglass is classified as a nuisance dust by OSHA.

SECTION 12: Ecological information

General toxicity

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

Persistence and degradability

: 1 - 2 %

Bioaccumulative potential

Bioaccumulative potential No bioaccumulation potential

partition coefficient Not relevant

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

Results of PBT and vPvB assessment

Not relevant

12.6. Endocrine disrupting properties

Not relevant

Other adverse effects None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of in accordance with regulations and procedures in force in country of use or disposal.
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 the local office of the USEPA, your local public health department or the local landfill regulators.

14: Transport information

General information	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, TDG).
UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard class(es)	No transport warning sign required.
Packing group	Not applicable
Environmental hazards	
Environmentally hazardous substance/marine pollutant	None.
Special precautions for user	Not applicable

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

Not applicable

15: Regulatory information

Regulatory status	Not classified according to WHMIS In accordance with industry practice and voluntary commitments, Knauf Insulation has decided to continue to provide its customers with the appropriate information for the purpose of assuring safe handling and use of fiberglass throughout the product life.
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Inventories

Canada – DSL/NDSL : All the ingredients are listed or exempt.

CEPA - Priority Substances List : All the ingredients are listed or exempt.

National Pollutant Release Inventory : All the ingredients are listed or exempt

SECTION 16: Other information

General information 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

www.knaufnorthamerica.com



Revision comments §1

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SDS number KI_DP_109

Other information

In 2001, the International Agency for Research on Cancer (IARC) reclassified mineral wool fibres and fiberglass from Group 2B (possibly carcinogenic) to Group 3 «agent which cannot be classified as for their carcinogenicity to humans». (See Monograph Vol 81, <http://monographs.iarc.fr/>)

This Safety Data Sheet / Product Data Sheet does not constitute a workplace assessment.

Information contained in this document represents the state of our knowledge regarding this product as of the date of issue of the document. Attention of users is drawn to possible risks taken when the product is used for other applications than the ones it has been designed for.