

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 PRODUCT IDENTIFIER**

Trade name: 3D | CORE™ XPS

**1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

Relevant identified uses of the substance or mixture: Structural foam core for composite application

Uses advised against: No data available

**1.3 CONTACT INFORMATION FOR QUESTIONS REGARDING THIS DATA SHEET.**

Company name: FIBERLINK INC.  
 Address: 55 Valleywood Drive, Markham, Ontario L3R 5L9 Canada  
 Website: www.fiberglassfiberlink.com  
 E-Mail: sales@fiberglassfiberlink.com  
 Telephone: 905-475-2300  
 Fax: 905-475-2303

**1.4 EMERGENCY TELEPHONE NUMBER**

905-475-2300 (This number is only available during office hours)

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

Classification Information: This product does not meet the classification and labelling criteria given in Regulation (EC) No. 1272/2008 (CLP).

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**2.2 LABEL ELEMENTS**

Not relevant.

**2.3 OTHER HAZARDS**

No specific dangers known, if the regulations/notes for storage and handling are considered according to Regulation (EC) No 1272/2008 (CLP).

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 SUBSTANCES**

Not applicable. The product is not a substance.

**3.2 MIXTURES**

Chemical characterization:	Extruded polystyrene foam containing a halogenated flame retardant system
Hazardous ingredients:	Hexabromocyclododecane
Content:	>0.1%
CAS Number:	3194-55-6
EC Number:	221-695-9
Hazard symbol:	H400, H410

**SECTION 4: FIRST AID MEASURES**

**4.1 DESCRIPTION OF FIRST AID MEASURES**

General information:	Avoid contact with the skin, eyes and clothing.
After inhalation:	If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

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After skin contact:	When in contact with the skin, clean with soap and water. Burns caused by molten material require hospital treatment.
After eye contact:	Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). If irritation develops, seek medical attention.
After ingestion:	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. If difficulties occur: seek medical attention.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

No data available

**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

No data available

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 EXTINGUISHING MEDIA**

Suitable extinguishing media:	Water; Carbon dioxide; Dry chemical fire extinguishers
Unsuitable extinguishing media:	High power water jet

**5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

In the event of fire, the following can be released:	Dense smoke is produced when product burns. Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Carbon monoxide and Carbon dioxide
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extruded foam sheets, should be free of solvents. 3D|CORE™ XPS extruded foam boards should not be exposed to temperatures above 70 °C for extended periods.

Advice on protection against fire and explosion:

Be careful when handling open fire as the extruded foam sheets are flammable.

**7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Technical measures and storage conditions:

3D|CORE™ XPS must be stored in a dry place and protected from high temperatures. Unpacked 3D|CORE™ XPS sheets must be protected from direct UV radiation. Do not store together with flammable materials.

**7.3 SPECIFIC END USE(S)**

No data available

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 CONTROL PARAMETERS**

No parameters available for monitoring

**8.2 EXPOSURE CONTROLS**

Appropriate engineering controls:

No data available.

**PERSONAL PROTECTIVE EQUIPMENT**

Respiratory protection:

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

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Eye/face protection:	Wear a disposable mask (Type according to EN 149 FFP1) in unventilated rooms or when dust is generated. Safety glasses (EN 166).
Hand protection:	In case of intensive contact, wear protective gloves (EN 388). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.
Body protection:	Protect uncovered parts of skin. Wear loose-fitting, closed work clothing.
Hygiene protection measures:	Rinse hands with cold water before washing.
Environmental exposure controls:	No data available

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

Form/Colour:	Solid. Yellow
Odour:	Odourless
Odour threshold:	No data available
pH value:	No data available
Boiling point/boiling range:	No data available
Melting point/melting range:	Value: 100°C – 125°C
Decomposition point / Range:	Value: 350°C
Softening point/ softening range:	Value: 70°C
Flash point:	Value: 380°C
Auto-ignition temperature:	500°C or only in conjunction with adjacent construction materials which tend to self-ignition (e.g., wood).

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Oxidizing properties:	No data available
Explosive properties:	No data available
Flammability (solid, gas):	No data available
Lower flammability or explosive limits:	No data available
Upper flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Evaporation rate:	No data available
Relative density:	No data available
Density:	Value: 25 – 49kg/m <sup>3</sup>
	Reference Temperature: 20°C
Solubility in water:	Reference Temperature: 20°C
	Remarks: Insoluble
Solubility(ies):	The products must not be brought in contact with organic solvents such as gasoline, nitro-dilution etc. Contact with fatty acids should be avoided.
Partition coefficient: n-octanol/water:	No data available
Viscosity:	No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

No data available

### 10.2 CHEMICAL STABILITY

Stable under recommended storage and handling conditions (See section 7)

### 10.3 THERMAL STABILITY

Thermal stability at typical application temperatures. Temperatures above 70°C can cause deformations of the material. Endurance stress at temperatures above 70°C should be avoided.

### 10.4 POSSIBILITY OF HAZARDOUS REACTIONS

None, if handled according to order

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**10.5 CONDITIONS TO AVOID**

Contact with open flames

**10.6 INCOMPATIBLE MATERIALS**

Do not store together with flammable materials.

**10.7 HAZARDOUS DECOMPOSITION PRODUCTS**

The formation of decomposition products depends on temperature, air supply and the presence of other materials. Decomposition products may include aromatic compounds, aldehydes, ethylbenzene, polymer fragments. Small amounts of aromatic hydrocarbons, e.g., styrene and ethylbenzene could be formed under non-firing conditions with very high temperatures.

**10.8 ADDITIONAL INFORMATION**

Protect from direct sunlight. Do not mix with organic solvents.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

Acute oral toxicity:	Toxicologically harmless. In case of fire, see section 10.
Acute dermal toxicity:	Toxicologically harmless. In case of fire, see section 10.
Acute inhalation toxicity:	Toxicologically harmless. In case of fire, see section 10.
Skin corrosion/irritation:	Not skin irritant generally. Only mechanical injuries possible. Due to the physical properties is an absorption over the skin unlikely.
Serious eye damage/irritation:	Solids or dust can cause irritation or injury to the cornea as a result of mechanical stress.
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Reproduction toxicity:	No data available
Carcinogenicity:	No data available
STOT – single exposure:	No data available
STOT – repeated exposure:	No data available
Aspiration hazard:	No data available

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**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 TOXICITY**

Toxicity to fish (acute):	No data available
Toxicity to fish (chronic):	No data available
Toxicity to Daphnia (acute):	No data available
Toxicity to Daphnia (chronic):	No data available
Toxicity to algae (acute):	No data available
Toxicity to algae (chronic):	No data available
Bacteria toxicity:	No data available

**12.2 PERSISTENCE AND DEGRADABILITY**

A photochemical degradation of the surface expected under solar irradiation. A significant biological degradation is not to be expected.

**12.3 BIOACCUMULATIVE POTENTIAL**

No acute toxicity to aquatic organisms. Regarding bioaccumulation, there is no evidence of significant leaching. Therefore, contamination of the ground water is unlikely.

**12.4 MOBILITY IN SOIL**

No data available

**12.5 RESULTS OF PBt AND vPvB ASSESSMENT**

No data available

**12.6 OTHER ADVERSE EFFECTS**

The product contains a substance which will be classified as hazardous to the environment. However, recent studies on aquatic organisms have shown that products such as XPS extruded rigid foam containing this substance would not be needed to be classified as hazardous to the environment.

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**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 WASTE TREATMENT METHODS**

Product:	All efforts to recycle the material should be made. However, this material contains a halogen-containing flame retardant and should not be recycled together with free of flame retardant plastics. Disposal key for XPS according to the European Waste Catalogue Regulation - AVV: as monofraction (also with low adhesions): 170604 as mixed building waste: 170904
Packaging:	Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: TRANSPORT INFORMATION****14.1 TRANSPORT ADR/RID/ADN**

The product is not subject to ADR/RID/AND regulations

**14.2 TRANSPORT IMDG**

The product is not subject to IMDG regulations

**14.3 TRANSPORT ICAO-TI/IATA**

The Product is not subject to ICAO-TI/IATA regulations

**14.4 OTHER INFORMATION**

No data available

**14.5 ENVIRONMENTAL HAZARDS**

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Information on environmental hazards, if relevant, please see 14.1-14.3

**14.6 SPECIAL PRECAUTIONS FOR USER**

No data available

**14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE**

Not relevant

**SECTION 15: REGULATORY INFORMATION**

**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

**EU REGULATIONS**

Regulation (EC) No 1907/2006 (REACH). Annex XIV (List of substances subject to authorization):

According to the data available and/or specifications supplied by upstream suppliers, the product does not contain any substances considered as substances requiring authorization as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorization:

According to the data available and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in Annex XIV (List of Substances Subject to Authorization) as laid down in article 57 and 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles:

According to the data available and/or specifications supplied by upstream suppliers, the product does not contain any substances requiring authorization as listed on Annex XVII or the REACH regulation (EC) 1907/2006.

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Directive 2012/18/EU on the control of major- accident hazards involving dangerous substances:

The product is not subject to Part 1 or 2 of Annex I.

Other regulations:

Adhere to the national sanitary and occupational safety regulations when using the product.

## 15.2 CHEMICAL SAFETY ASSESSMENT

No data available

## SECTION 16: OTHER INFORMATION

Further information:

Authors responsible for the compilation of the material safety data sheet: 3D|Core  
The Information is based on the knowledge and studies of 3D|Core. These documents were authorized to be distributed by FIBERLINK INC.; however, it does not represent or guarantee of product properties nor does it create any legal obligation for any involving parties.

Sources of key data used to compile the data sheet:

Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.  
EC Directives 2000/39/EC, 2009/161/EU  
National Threshold Limit Values of the corresponding countries as amended in each case.  
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.  
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

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