

System 500

NEWTON FIBRAN XPS 500-C

Closed-Cell Slotted Insulation Board

Rev 1.1 - 27 March 2018

PRODUCT CODE - 500C

1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Identifier

- Product name Newton Fibran XPS 500-C
- Product code 500C

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture Closed-cell slotted insulation boards of extruded polystyrene foam (XPS).

Details of the Supplier of the Material Safety Data Sheet

- Company Address Newton Waterproofing Systems, Newton House, 17-20 Sovereign Way, Tonbridge, Kent TN9 1RH
- Web www.newtonwaterproofing.co.uk
- Email address of the competent person info@newtonwaterproofing.co.uk
- Emergency telephone number +44 (0)1732 360 095: 08:00/17:30 (GMT) Mon-Thur & 08:00/17:00 (GMT) Fri

2. Hazards Identification

- Refer to Section 16 for The explanation of the abbreviations used throughout this MSDS

2.1 Classification of the substance or mixture

- Classification under CLP Nonclassified according to the criteria of Regulation (EC) 1272/2008 (CLP).
Not hazardous to health when stored, handled and used in compliance with the following sections here

2.2 Label elements N/A

2.3 Other Hazards

- PBT / vPvB NDA
- Other Hazards NDA

3. Composition/Information on Ingredients

3.3 Article The product consists of solidified polystyrene foam and for its formation, apart from crystal clear general purpose polystyrene (GP-PS), suitable physical blowing agents are used as well as small quantities of enhancing additives like colorant and flame retardant.

Hazardous Substances Does not contain ingredients that present a health or environmental hazard within the meaning of Regulation (EC) 1272/2008.

NB Please refer to Section 8 Personal Protection / Exposure Controls

4. First Aid Measures

4.1 Description of First Aid Measures

- Inhalation If irritation occurs, remove the affected person to fresh air. Provide water to drink and clear nose to clear filings and dust. If irritation persists, consult a physician.

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- Skin contact N/A
- Eye contact Do not rub eyes. Flush with plenty of water. Consult a physician if irritation persists.
- Ingestion Rinse mouth with plenty of water to remove filings. Drink plenty of water to help avoid potential gastrointestinal irritation.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- Inhalation Temporary irritation of the respiratory system may result from prolonged exposure to filings emerging from further mechanical treatment of the product in excess of applicable exposure limits. In case of burning (fire), smoke with odour is released which when inhaled irritates the respiratory tracts.
- Skin contact No effect.
- Eye contact Temporary irritation (itching) or redness may result from prolonged exposure to filings emerging from further mechanical treatment of the product.
- Ingestion Ingestion of the product is unlikely to occur under normal conditions of use. Nevertheless if it happens (filings) no serious effects are expected.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Immediate / special treatment None.

5. Fire fighting Measures

5.1 Extinguishing Media All: water, foam, dry powder, carbon dioxide. There are no objections in the use of any typical fire extinguishing media.

5.2 Special Hazards Arising from the Material

Apart from carbon dioxide and water vapour, other gases may be released upon combustion of the product that may be toxic or corrosive like carbon monoxide and hydrogen fluoride as well as traces of other halogenated or not substances.

5.3 Advice for Firefighters

Observe normal fire fighting procedures. When the product burns in closed or inadequately ventilated space, use of self-contained or supplied-air respiratory equipment is necessary.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Refer to Section 8 of the MSDS for personal protection details
Remove potential ignition sources.

6.2 Environmental Precautions

Collect large pieces and scoop up any filings, transfer to waste collection

6.3 Methods and Materials for Containment and Cleaning Up

Not usable - brooms and suction devices for filings and dust
Usable remnants - cover against UV and return to stores

6.4 Reference to Other Sections

Waste to be disposed of according to the provisions in Section 13

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7. Handling and Storage

7.1 Precautions for Safe Handling

- a) Safe handling
Only unpack at application site and avoid unnecessary handling of the product. Keep work areas clean.
Avoid contact with naked flame or other ignition sources
- b) Prevention of handling incompatible substances or mixtures
Do not handle other substances or mixtures at the same time. Keep away from other substances and mixtures
- c) Operations and conditions that could create new risks
NDA
- d) Reduce risk of release to the environment
NDA

7.2 Conditions for Safe Storage, Including Any Incompatibilities

- a. Storage conditions
Store under cool, dry conditions and protect from prolonged (several months) exposure to direct sunlight and from open flame.
- b. Control of the effects of compatibilities weather, ambient pressure, temperature, sunlight, humidity and vibration
Protect from direct sunlight
- c. Storage with other substances and mixtures
Store in the original packaging and in an allocated location
- d. Storage room design, quantity limits, ventilation and packaging compatibilities
Storage room to be dry, cool and well ventilated
- e. Other considerations
Ensure identification labelling is visible at all times

- 7.3 Specific End Use(es)
Thermal insulation product for buildings

8. Exposure Controls/Personal Protection

- 8.1 Control Parameters
According to 91/332 EEC and 96/94 EC directives, recommended exposure limits or 5 mg/m³ for respirable particulate and 10 mg/m³ for inert dust and particulates not otherwise regulated.

8.2 Exposure Controls

- 8.2.1 Appropriate Engineering Controls
Follow all applicable exposure limits to filings/particles. Where feasible, general dilution ventilation or local exhaust ventilation should be used if necessary to keep exposure below these limits.
Filing and dust collection/removal systems should be used in cutting or machine operations.. Isolate the work area when cutting, having warned other persons to vacate the area

8.2.2 Personal Protective Equipment

- a. Eye / face protection
Safety glasses with side protection EN166. Ensure eye bath facilities are available
- b. Skin protection
 - (i) Hand Protection
Material of gloves
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC, this being repealed by EU 2016/425 on 21/04/2018, and the resultant standard EN 374
The selection of the suitable gloves does not only depend upon the material, but also further marks of quality and varies from manufacturer to manufacturer

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	Break through, and other characteristics, depending upon material density and the glove type, and must be determined in each case
	Gloves must be inspected prior to each time used and must be replaced when damaged or worn out
	Cut protection gloves to protect hands when cutting Fibran sheets to profile at edges, protrusions, etc.
Penetration time of gloves	N/A regarding the Fibran XPS
(ii) Other	Protective work clothing Safety shoes / boots Good hygiene measures should be followed at all time
c. Respiratory protection	Mouth & nose filter face mask A1P2
d. Thermal hazards	N/A

9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

• Appearance	
• (i) Form	Solid boards
• (ii) Colour	Green
• Odour	Odourless
• Odour threshold	NDA
• pH	NDA
• Melting point/range °C	Above 180°C
• Freezing point/range °C	NDA
• Initial boiling point/range °C	N/A
• Flash point/self-ignition °C	N/A
• Evaporation rate	NDA
• Flammability (solid, gas)	Slow burning
• Flammability limits, lower %	NDA
• Flammability limits, upper %	NDA
• Auto flammability °C	N/A
• Decomposition temperature	NDA
• Explosive properties	N/A
• Oxidising properties	NDA
• Vapour pressure	N/A
• Vapour density	NDA
• Relative density	28-38 g/cm ³
• Solubility in water	Insoluble
• Partition coefficient n-octanol/water	NDA
• Also soluble in	NDA
• Viscosity	N/A
• VOC g/l	NDA
9.2 OTHER INFORMATION	N/A

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10. Stability and Reactivity

10.1 Reactivity	NDA
10.2 Chemical Stability	Chemically stable under the storage, handling and usage conditions recommended here
10.3 Possibility of Hazardous Reactions	NDA
10.4 Conditions to Avoid	Direct heat / naked flame, strong oxidising agents
10.5 Incompatible Materials to Avoid	Organic solvents, strong acids, sodium hypochlorite
10.6 Hazardous Decomposition Products	The combustion products as stated in Section 5.2 above.

11. Toxicological Information

11.1 Information on Toxicological Effects

Hazardous ingredients	N/A
Relevant hazards for product	NDA
Excluded hazards for the product	

Hazard	Route	Basis
Skin corrosion / irritation	-	N/A
Serious eye damage/irritation	-	N/A
Respiratory or skin sensitisation	-	N/A (see Other below)
Germ cell mutagenicity	-	NDA
Carcinogenicity	-	N/A
Reproductive toxicity	-	NDA
STOT single exposure	-	NDA
STOT repeated exposure	-	NDA
Aspiration hazard	-	N/A
Delayed / immediate effects	-	N/A

Other	XPS fillings/dust can cause temporary irritation in the eyes and in the upper respiratory tract (nose and throat). This is a mechanical reaction of the human body to the particles, generally abating within a short time after the end of exposure.
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12. Ecological Information

12.1 Ecotoxicity	The product is not expected to cause harm to animals and plants or to fish and other aquatic species.
12.2 Persistence and Biodegradability	NDA The product may suffer gradual surface degradation due to photolytic processes during prolonged sun exposure.
12.3 Bioaccumulative Potential	NDA
12.4 Mobility in Soil	NDA
12.5 Results of PBT & vPvT Assessment	NDA
12.6 Other Adverse Effects	XPS production uses third generation physical blowing agents that have no toxic effects and have zero Ozone Depletion Potential (ODP=0) and low total Global Warming Potential (GWP).

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13. Disposal Considerations

13.1 Waste Treatment Methods

- Recovery operations Treat as SECTION 6: Accidental Release Measures
- Disposal operations XPS products do not produce hazardous waste. Dispose waste material according to local regulations. If it is free of foreign material it can be sent for recycling.
- Disposal of packaging Plastic wrapping on delivered packs, dispose according to local regulations
- Waste code number 17 06 04
- Special precautions for the disposal method N/A

NB The user's attention is drawn to the possible existence of regional or national regulations regarding disposals

14. Transport Information

- 14.1 UN Number None
- 14.2 UN Proper Shipping Name NDA
- 14.3 Transportation Hazard Class(es) NDA
- 14.4 Packing Group N/A
- 14.5 Environmental Hazards N/A
- 14.6 Special Precautions for User Fibran XPS products are not classified as a hazardous material to transport
- 14.7 Transport in Bulk According to:
 - (i) Annex II of Marpol N/A
 - (ii) the IBC Code N/A

15. Regulatory Information

- 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance, Mixture or Article
COMMISSION REGULATION (EU) No 2015/830 of 28/05/2015 amend Regulation (EC) No 1907/2006 and repealing (EU) 453/2010 20 May 2010 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/ EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- 15.2 Chemical Safety Assessment NDA

16. Other Information

- Other Information This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830. This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship
- Phrases Used in Sections 2 & 3 N/A
- Notice The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the

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Abbreviations & Acronyms

meaning of guarantees on properties. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

N/A: Not Applicable

NDA: No Data Available

Changes Compared to the Previous Version

An asterisk (*) to the left side indicates that there is a change to the previous version: