Material Safety Data Sheet

HYTHERM LI

Rendered XPS Insulation 50+10mm

According to Regulation (EU) 2015/830

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

1.1 Product identifier

Product name: HYTHERM LI RENDERED XPS 50+10mm
Extruded Polystyrene Foam with Thin Mortar Facing

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Mainly used in the building industry.

1.3 Details of the supplier of the safety data sheet

COMPANY IDENTIFICATION
AXTER LIMITED
WEST ROAD
RANSOMES EUROPARK
IPSWICH, SUFFOLK IP3 9SX
UNITED KINGDOM

Customer Information Number: +44 (0) 1473 724056
(8.00 am to 5.30 pm
Monday to Friday.
NOT 24 hours)

1.4 EMERGENCY TELEPHONE NUMBER

Tel: +44 (1) 473 724056 (8.00 am to 5.30 pm, Monday to Friday).
In the event of a medical enquiry relating to this product, please call your doctor or local hospital accident and emergency department.

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

No data available

Section 3. Composition/information on ingredients

3.2 Mixtures

This product is an article.

CASRN / EC-No. / Index-No.	REACH Registration Number	Concentration	Component	Classification: REGULATION (EC) No 1272/2008
CASRN Not available **EC-No.** Not applicable **Index-No.** –	–	100.0%	Laminated styrenic foam	Not classified

If present in this product, any not classified components disclosed above for which no country specific OEL value(s) is(are) indicated under Section 8, are being disclosed as voluntarily disclosed components.

Section 4. First aid measures

4.1 Description of first aid measures

General advice: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin contact: Wash off with plenty of water.

Eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Ingestion: No emergency medical treatment necessary.

4.2

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

4.3 Indication of any immediate medical attention and special treatment needed
Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5. Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

Unsuitable extinguishing media: No data available

5.2 Special hazards arising from the substance or mixture
Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. In smoldering or flaming conditions, carbon monoxide, carbon dioxide and carbon are generated. Combustion products may include and are not limited to: Hydrogen halides. Based on combustion toxicity testing, the effects of combustion from this foam are not more acutely toxic than the effects of combustion from common building materials such as wood.

Unusual Fire and Explosion Hazards: Mechanical cutting, grinding or sawing can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate. Dense smoke is produced when product burns.

5.3 Advice for firefighters
Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. If material is molten, do not apply direct waterstream. Use fine water spray or foam. Cool surroundings with water to localize fire zone.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6. Accidental release measures

6.1 **Personal precautions, protective equipment and emergency procedures:** There are no special required instructions.

6.2 **Environmental precautions:** There are no special required instructions.

6.3 **Methods and materials for containment and cleaning up:** Recover spilled material if possible. See Section 13, Disposal Considerations, for additional information.

6.4 **Reference to other sections:** References to other sections, if applicable, have been provided in the previous sub-sections.

Section 7. Handling and storage

7.1 **Precautions for safe handling:** Mechanical cutting, grinding or sawing can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate. This product is combustible and may constitute a fire hazard if improperly used or installed. When installed, this product should be adequately protected as directed by national building regulations or instructions in the specific application brochure.

7.2 **Conditions for safe storage, including any incompatibilities:** During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources.

7.3 **Specific end use(s):** See the technical data sheet on this product for further information.

Section 8. Exposure controls/personal protection

8.1 **Control parameters**
Exposure limits are listed below, if they exist.

8.2 **Exposure controls**
Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures
Eye/face protection: Eye protection should not be necessary. For fabrication operations safety glasses (with side shields) are recommended. Safety glasses (with side shields) should be consistent with EN 166 or equivalent. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.

Skin protection
Hand protection: Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.
Other protection: No precautions other than clean body-covering clothing should be needed.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty atmospheres, use an approved particulate respirator. Use the following CE approved air-purifying respirator: Organic vapour cartridge with a particulate pre-filter, type AP2.

Environmental exposure controls
See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

Section 9. Physical and chemical properties

9.1 **Information on basic physical and chemical properties**

Appearance	
Physical state	Foam
Colour	Colour is variable
Odour	Odourless
Odour Threshold	Odourless
pH	Not applicable
Melting point/range	> 75 °C Literature
Freezing point	Not applicable
Boiling point (760 mmHg)	Not applicable
Flash point	closed cup 346 °C Literature
Evaporation Rate (Butyl Acetate = 1)	Not applicable

Flammability (solid, gas)	No
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour Pressure	Not applicable
Relative Vapour Density (air=1)	Not applicable
Relative Density (water=1)	Not applicable
Water solubility	insoluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	491 °C Literature
Decomposition temperature	430 - 600 °C Literature
Kinematic Viscosity	Not applicable
Explosive properties	No
Oxidizing properties	No

9.2 Other information

Solid Density	100 - 500 kg/m^3 Literature
Molecular weight	Not applicable

NOTE: The physical data presented above are typical values and should not be construed as a specification.

Section 10. Stability and reactivity

10.1 **Reactivity:** No dangerous reaction known under conditions of normal use.

10.2 **Chemical stability:** Thermally stable at typical use temperatures.

10.3 **Possibility of hazardous reactions:** Polymerization will not occur.

10.4 **Conditions to avoid:** Avoid temperatures above 300°C (572°F) Exposure to elevated temperatures can cause product to decompose.

10.5 **Incompatible materials:** Avoid contact with: Oxidizers. Aldehydes. Amines. Esters. Liquid fuels. Organic solvents.

10.6 **Hazardous decomposition products:** Does not normally decompose. Decomposition products depend upon temperature, air supply and the presence of other materials. Aromatic compounds. Aldehydes. Hydrogen halides. Polymer fragments. Under high heat, non-flaming conditions, small amounts of aromatic hydrocarbons such as styrene and ethylbenzene are generated.

Section 11. Toxicological information

Toxicological information appears in this section when such data is available.

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Swallowing is unlikely because of the physical state. Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

Single dose oral LD50 has not been determined.,

Acute dermal toxicity

Skin absorption is unlikely due to physical properties.

As product: The dermal LD50 has not been determined.
The dermal LD50 has not been determined.,

Acute inhalation toxicity
Dust may cause irritation to upper respiratory tract (nose and throat).
The LC50 has not been determined.,

Skin corrosion/irritation
Essentially non-irritating to skin.
May cause skin irritation due to mechanical abrasion.

Serious eye damage/eye irritation
Solid or dust may cause irritation due to mechanical action.
Fumes/vapour released during thermal operations such as hot-wire cutting may cause eye irritation.

Sensitization
For skin sensitization:
Relevant data not available.

For respiratory sensitization:
Relevant data not available.

Specific Target Organ Systemic Toxicity (Single Exposure)
Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)
Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Carcinogenicity
Relevant data not available.

Teratogenicity
No relevant data found.

Reproductive toxicity
No relevant data found.

Mutagenicity
Relevant data not available.

Aspiration Hazard
Based on physical properties, not likely to be an aspiration hazard.

Section 12. Ecological information

Ecotoxicological information appears in this section when such data is available.

12.1 Toxicity
Acute toxicity to fish
Not expected to be acutely toxic to aquatic organisms.

12.2 Persistence and degradability
Biodegradability: No appreciable biodegradation is expected.

12.3 Bioaccumulative potential
Bioaccumulation: No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

12.4 Mobility in soil
In the terrestrial environment, material is expected to remain in the soil.

12.5 Results of PBT and vPvB assessment
This mixture has not been assessed for persistence, bioaccumulation and toxicity (PBT).

12.6 Other adverse effects
No relevant data found.

Section 13. Disposal considerations

13.1 Waste treatment methods
All efforts to recycle material should be made. This material may be disposed of preferably by incineration under approved conditions or, in some countries, in approved landfills. Customers are advised to check their local legislation governing the disposal of waste materials. If incinerated, it is recommended that the flue gases be treated by a scrubber before exhausting to the atmosphere.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

Section 14. Transport information

Classification for ROAD and Rail transport (ADR/RID):

14.1	**UN number**	Not applicable
14.2	**Proper shipping name**	Not regulated for transport
14.3	**Class**	Not applicable
14.4	**Packing group**	Not applicable
14.5	**Environmental hazards**	Not considered environmentally hazardous based on available data.
14.6	**Special precautions for user**	No data available.

Classification for SEA transport (IMO-IMDG):

14.1	**UN number**	Not applicable
14.2	**Proper shipping name**	Not regulated for transport
14.3	**Class**	Not applicable
14.4	**Packing group**	Not applicable
14.5	**Environmental hazards**	Not considered as marine pollutant based on available data.
14.6	**Special precautions for user**	No data available.
14.7	**Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code**	Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

14.1	**UN number**	Not applicable
14.2	**Proper shipping name**	Not regulated for transport
14.3	**Class**	Not applicable
14.4	**Packing group**	Not applicable
14.5	**Environmental hazards**	Not applicable

14.6 Special precautions for user No data available.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH Regulation (EC) No 1907/2006
This article contains neither dangerous substances nor dangerous mixtures which are intended to be released under normal or reasonably foreseeable conditions of use., The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer´s/user´s responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Listed in Regulation: Not applicable

15.2 Chemical Safety Assessment
Not applicable

Section 16. Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008
This product is not classified as dangerous according to EC criteria.

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