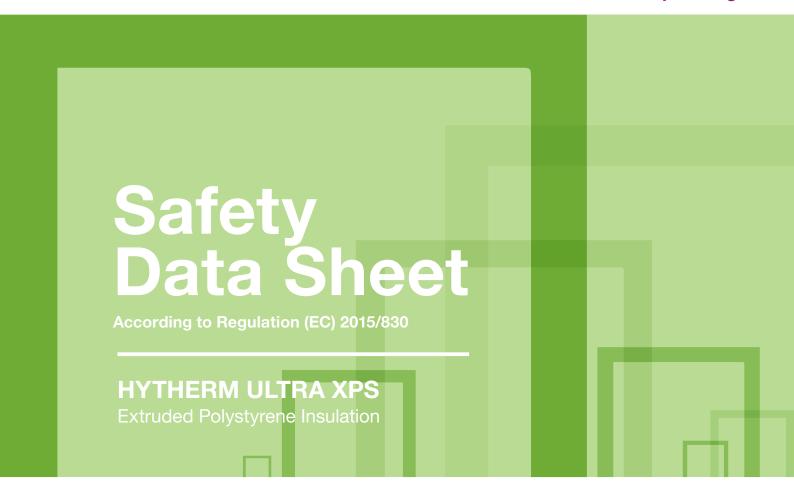




Bitumen Waterproofing Hot Melt waterproofing



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

1.1 Product identifier

Product name: HYTHERM ULTRA XPS

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

Identified uses: Thermal insulation.

1.3 Details of the supplier of the safety data sheet

Supplier: Axter Ltd, Harbour Landing, Fox's Marina,

The Strand, Wherstead, Ipswich IP2 8NJ

Tel: +44 (0) 1473 724056 Email: info@axterltd.co.uk Website: www.axter.co.uk

1.4 Emergency telephone: Axter Ltd - +44 (0) 1473 724056

(this line is open from 8.00 am to 5.30 pm, Monday to Friday). In the event of a medical enquiry involving this product, members of

the public should contact:

NHS 111 a doctor or

a local hospital accident and emergency department.

The NPIS (National Poisons Information Service) helpline is available

for enquiries from medical professionals only.

Tel: 0344 892 0111

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 29118-24-9 EC-No. 471-480-0 Index-No.		<8.0%	TRANS-1,3,3,3, TETRAFLUOROPROPENE (HFO-1234ze)	Not classified
CASRN 64-17-5 EC-No. 200-578-6 Index-No. 603-002-00-5	01-2119457610-43	<3.0%	Ethanol	Flam. Liq 2 - H225
CASRN 75-28-5 EC-No. 200-857-2 Index-No. 601-004-00-0	01-2119485395-27	< 2.0 %	Isobutane	Flam. Gas - 1 - H220

If present in this product, any not classified components disclosed above for which no country specific OEL values(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 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. May cause injury due to mechanical action.

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: Fire fighting 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: Container may vent and/or rupture due to fire. 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 fire fighters: 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

- **Personal precautions, protective equipment and emergency procedures:** There are no special required instructions.
- **Environmental precautions:** There are no special required instructions.
- **Methods and materials for containment and cleaning up:** Recover spilled material if possible. See Section 13, Disposal Considerations, for additional information.
- **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: Fabrication methods which involve cutting into this product may release the blowing agent(s) remaining in the cells. Provide adequate ventilation to assure localized concentrations in release areas are maintained below the lower flammable limit. 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. In order to prevent buildup of combustible vapours, do not store large quantities of this product in unventilated spaces. Transport bulk shipments of this product in ventilated vehicles. Gas fired recirculating air furnaces or heaters, gas heaters, etc., drawing air from areas where there may be a presence of the blowing agents emitted from this foam during storage or fabrication, can be subject to rust and corrosion problems as a result of thermal decomposition of the blowing agents to hydrogen fluoride.
- **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.

Component	Regulation	Type of listing	Value/Notation
ethanol	GB EH40	TWA	1920mg/m3, 1000ppm
Isobutane	ACGIH	STEL	1,000 ppm

Concentrations of the blowing agents anticipated incidental to proper handling are expected to be well below those which cause acute inhalation effects and below exposure guidelines.

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. When respiratory protection is required for certain operations, including but not limited to saw, router or hot-wire cutting, use an approved air-purifying respirator. 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, (meeting standard EN 14387).



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 Blue or Grey or Green

Odourless
Odourless
Odourless
PH
Not applicable
Melting point/range
Freezing point
Not applicable
Not applicable
Not applicable
Not applicable

Flash point closed cup 346 °C Literature

Evaporation Rate (Butyl Acetate = 1) Not applicable

Flammability (solid, gas) No

Lower explosion limitNo data availableUpper explosion limitNo data availableVapour PressureNot applicableRelative Vapour Density (air = 1)Not applicableRelative Density (water = 1)Not applicableWater solubilityInsoluble

Partition coefficient:

n- octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties

Not applicable

Not applicable

Not applicable

Not applicable

9.2 Other information

Solid Density 20-70 kg/m³ Literature

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 Exposure to elevated temperatures can cause product to decompose. Avoid direct sunlight.
- **10.5 Incompatible materials:** Avoid contact with oxidising materials. 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. Decomposition products can include and are not limited to: Aromatic compounds. Aldehydes. Polymer fragments. Hydrogen halides. Ethylbenzene. Styrene.

Section 11: Toxicological information

Toxicological information on this product or its components appear 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.

Acute dermal toxicity

Skin absorption is unlikely due to physical properties.

Acute inhalation toxicity

Dust may cause irritation to upper respiratory tract (nose and throat). Fumes/vapours released during thermal operations such as hot wire cutting may cause respiratory irritation.

Skin corrosion/irritation

Mechanical injury only.

Essentially non-irritating to skin.

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:

No relevant data found.

For respiratory sensitization:

No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

No relevant data found.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

No relevant data found.

Carcinogenicity

No relevant data found.

Teratogenicity

No relevant data found.

Reproductive toxicity

No relevant data found.

Mutagenicity

No relevant data found.

Aspiration Hazard

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



Section 12: Ecological information

Ecotoxicological information on this product or its components appear 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: Surface photodegradation is expected with exposure to sunlight. 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 substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

12.6 Other adverse effects

Product contains no ozone depleting component.

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.

15.2 Chemical Safety Assessment

Not applicable

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Section 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

Full text of R-phrases referred to under sections 2 and 3

R12 Extremely flammable.

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.

Revision

Identification Number: 003 / EN / Issue Date: 30.09.2019 / Version: 1.2

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road;

AICS - Australian Inventory of Chemical Substances;

ASTM - American Society for the Testing of Materials;

bw - Body weight;

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant;

DIN - Standard of the German Institute for Standardisation;

DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -

Concentration associated with x% response;

ELx - Loading rate associated with x% response;

EmS - Emergency Schedule;

ENCS - Existing and New Chemical Substances (Japan);

ErCx - Concentration associated with x% growth rate response;

GHS - Globally Harmonized System;

GLP - Good Laboratory Practice;

IARC - International Agency for Research on Cancer;

IATA - International Air Transport Association;

IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration;

ICAO - International Civil Aviation Organization;

IECSC - Inventory of Existing Chemical Substances in China;

IMDG - International Maritime Dangerous Goods;

IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan);

ISO -International Organisation for Standardization;

KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population;

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from

Ships; n.o.s. - Not Otherwise Specified;

NO(A)EC - No Observed (Adverse) Effect Concentration;

NO(A)EL - No Observed (Adverse) Effect Level;

NOELR - No Observable Effect Loading Rate;

NZIoC - New Zealand Inventory of Chemicals;

OECD - Organization for Economic Co-operation and Development;

OPPTS - Office of Chemical Safety and Pollution Prevention;

PBT - Persistent, Bioaccumulative and Toxic substance;

PICCS - Philippines Inventory of Chemicals and Chemical Substances;

(Q)SAR - (Quantitative) Structure Activity Relationship;

REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail;

SADT - Self-Accelerating Decomposition Temperature;

SDS - Safety Data Sheet;

SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory;

TRGS - Technical Rule for Hazardous Substances;

TSCA - Toxic Substances Control Act (United States);

UN - United Nations;

vPvB - Very Persistent and Very Bioaccumulative



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