

Safety Data Sheet

HYTHERM VIP
Insulation

This product is not intended to release substances and does not contain substances of very high concern and as such is exempt from the requirements of REACH Regulation (EC) No 1907/2006.

Section 1: Identification of Product and Company

1.1 Product identifier

Product name: HYTHERM VIP rigid vacuum insulation panel

1.2 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

1.3 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 www.axter.co.uk

There are no known hazards associated with the normal handling or use of this insulation product.

Care should be taken to avoid puncturing or rupture of the outer barrier film. In case of rupture and exposure of the core, please refer to sections 6 and 8 of this sheet.

Exposure of the panels to very high temperatures may result in the emission of smoke and decomposition / combustion of products.

Section 3: Composition

The core of HYTHERM VIP contains no respirable fibres and therefore falls outside the scope of European Community Directive Amendment 97/69/EC.

The core of HYTHERM VIP is encapsulated in polyester non-woven fabric and covered with a multi-layered barrier film.

Section 4: First-Aid Measures

Inhalation:	Possible irritation or soreness in throat and nose. Remove affected person to fresh air.
Skin:	Temporary irritation or rash. Rinse affected areas with water.
Eyes:	Temporary irritation or inflammation. Flush immediately with copious amounts of water. Do not rub eyes.
Ingestion:	No information available.
Other:	Seek medical attention if discomfort persists.

Section 5: Fire-Fighting Measures

It is prudent to take precautions against ignition, fire spread and smoke hazard.

Suitable media: Water spray (fog), foam, CO₂ or dry chemical.

Un-suitable media: Not applicable.

Fire fighters should use self-contained breathing apparatus and saturate burning foam with water from a spray nozzle. Dust is classified as weakly explosive (St. Class 1).

Section 6: Accidental Release Measures

In the event of rupture of the outer layers and exposure of the core material, any powder released should be cleaned up by a method that avoids / minimises the creation of airborne dust. In the event of high dust levels, use approved respiratory protective equipment (see Section 8).

Amorphous silica has a drying action on skin. Dust produced from the HYTHERM VIP core may, like any other dust, aggravate pre-existing upper respiratory and lung diseases.

Section 7: Handling and Storage

Keep in original packaging until ready for installation. HYTHERM VIP should be stored inside a building and raised off the floor. Ensure stability of stacks and follow guidance instructions on packaging.

Section 8: Exposure Controls / Personal Protection

When installing HYTHERM VIP in very bright or sunny weather it is advisable to wear UV protective sunglasses or goggles.

In the event of rupture of the envelope, the core contents of amorphous silica, silicon carbide and polyester fibres may be released. Note the following workplace exposure limits for these materials:

WORKPLACE EXPOSURE LIMITS

“EH 40/2005” (Amended December 2011) Published by the Health and Safety Executive, UK.

Substance	Long-term exposure limit (8-hr TWA reference period)	
	Inhalable dust	Respirable dust
	mg.m ⁻³	mg.m ⁻³
Amorphous Silica	6.0	2.4
Silicon Carbide	10.0	4.0

GERMAN “List of MAK and BAT Values 1998” for maximum concentrations at the workplace

Substance	Long-term exposure limit (8-hr TWA reference period)	
	Inhalable dust	Respirable dust
	mg.m ⁻³	mg.m ⁻³
Amorphous Silica	4.0	n/a
Silicon Carbide	n/a	1.5

Personal Protective Equipment

Respiratory Protection:

Approved, properly fitting, respirators with the appropriate nominal protection factor.

Hand Protection:

Gloves, moisturising or barrier creams may prevent the drying of the skin in contact with silica dust.

Eye Protection:

Goggles or safety glasses with side shields.

Skin Protection:

Overalls that are loose fitting at the neck and the wrist.

Section 9: Physical and Chemical Properties

Appearance:	Silver or white foil covered panels
Odour:	None.
pH:	Not applicable.
Melting point:	Not applicable.
Flash point:	Not applicable.
Insulation density:	Typically 180-210 kg/m ³ .
Solubility:	Not applicable.
Auto-ignition temperature:	(Envelope materials) 355oC
Oxidising properties:	Not applicable.
Other data:	None.

Section 10: Stability and Reactivity

The plastic materials used to encapsulate HYTHERM VIP cores and as reinforcing filaments will begin to decompose at approximately 150°C. The thermal decomposition of products will vary with temperature and oxygen availability, but could include oxides of carbon.

Section 11: Toxicological Information

There are no known health effects arising from handling or using HYTHERM VIP insulation as supplied.

Section 12: Ecological Information

HYTHERM VIP cores are manufactured using inert materials that remain stable over a considerable time. No ecotoxicological studies exist for these products.

Section 13: Disposal Considerations

Generally, HYTHERM VIP cores may be disposed of at a normal landfill site that has been licensed for industrial waste. It is prudent to ensure that the panels are appropriately bagged and sealed prior to disposal. The cores may be recycled.

Section 14: Transport Information

No special precautions required.

Section 15: Regulatory Information

UNITED KINGDOM

The Health and Safety at Work etc. Act 1974

The Control of Substances Hazardous to Health Regulations

HSE EH40/05 Workplace Exposure Limits (as Amended 2011)

MDHS 14 General methods for the gravimetric determination of respirable and total inhalable dust.

Section 16: Other Information

The information contained here is offered in good faith and is based on our current knowledge. We thereby reserve the right to update and amend this document as necessary.

The information should not be taken as guarantee of specific performance and users should make their own assessment and make all applicable personnel aware accordingly.

The wearing of appropriate safety equipment is strongly recommended as a precaution and the product should only be used in its design application.

Users should contact Axter Ltd to ensure information is correct.

The data contained in this SDS has been supplied as required by the EC REACH Regulation No. 1907/2006 and the EC Regulation No. 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company who are capable of acting on the information.

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The intended use of this product should be verified with Axter Ltd prior to adoption to ensure its suitability and compliance with specifications, project requirements, industry regulations, legislation, good practice, installation techniques and all other relevant guidance. The user should ensure all necessary precautions are taken during handling, storage, installation and disposal of the product, and all regulations to guarantee safety of people and the environment are observed. Axter Ltd accepts no liability for non-compliant use of this product.