

**ESPUMA PIR****1 IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING**

Product name: **ESPUMA PIR / ESPUMA CASSPIR / ESPUMA PIR B / ESPUMA PIR M**  
Use of the product: Used mainly as a thermal insulation product.  
Company name: POLIURETANOS, S.A.  
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**2 COMPOSITION/INFORMATION ON INGREDIENTS**

Rigid polyisocyanurate foam (polyisocyanurate (PIR) foam is a variant of polyurethane foam).

**3 HAZARDS IDENTIFICATION**

Classification: Non classified product  
Hazards for human health: No specific hazards are known. The risk due to dust (inert) inhalation from cutting and trimming operations has to be considered, as well as toxicity due to smoke from combustion.  
Hazards for the environment: No specific hazards are known.

**4 FIRST-AID MEASURES**

Polyisocyanurate rigid foam does not need any specific measures, however related to the dust that comes from the cutting and trimming processes, the following items can be considered:

Inhalation: Move person to fresh air. Rinse mouth with water. Remove dust from nose. If effects occur, consult a physician.  
Eye contact: Flush eyes thoroughly with water for 15 minutes without closing them. Do not rub eyes. If effects occur, consult a physician, preferably an ophthalmologist. Consult medical personnel.  
Skin contact: Wash with water and soap to eliminate dust. Wash hands before eating and at the end of work. The product is not absorbed by the skin.  
Ingestion: If swallowed the product may cause intestinal irritation. Rinse mouth with water and drink water abundantly to decrease irritation. Never make ingest nothing to an unconscious person.

**5 FIRE-FIGHTING MEASURES**

Specific hazards: Thermal decomposition products are carbon oxides, nitrogen oxides and hydrogen cyanide traces.  
Extinguishing Media: Water fog or fine spray. Carbon dioxide. Resistant foam, Dry dust.  
Protection of firefighters: Wear protective clothing of complete cover and self-contained breathing apparatus.

**6 ACCIDENTAL RELEASE MEASURES**

Personal precautions: Wear adequate personal protective equipment, see section 8.  
Environmental precautions: The product is environmentally inert.  
Methods of cleaning up: Place spare parts into containers. Collect dust with aspiration methods preferably. Avoid use of compressed air as cleaning method.

**ESPUMA PIR****7 HANDLING AND STORAGE**

Handling: No specific measures are needed.  
Storage: Keep product protected from inclemency. Avoid direct sunlight exposition.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Limit values for professional exposure: Polyurethane dust (breathable fraction). VLA-ED: 3 mg/m<sup>3</sup>, 8 hours.  
Professional exposure control: Assure pick up in origin that maintains dust concentration in the air below the limit of corresponding professional exposure.  
Respiratory protection: It is not necessary any respiratory protection in standard conditions that the product is used. If dust is present it is recommended a solid particles filter.  
Hand protection: Wear protective gloves against mechanical hazards.  
Eye protection: Wear protective goggles to avoid hazards during mechanizing processes.  
Skin/Body protection: Wear clean, long-sleeved, body-covering clothing. After work and before eating, drinking or smoking wash and clean yourself carefully with soap and water.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

Nature: Closed cell rigid foam.  
Foam color: Natural or light-green foam color.  
pH: Not applicable  
Vapor pressure: Not applicable  
Density:  $\geq 35 \text{ kg/m}^3$   
Solubility: Water insoluble  
Dynamic viscosity: Not applicable

**10 STABILITY AND REACTIVITY**

Stability: Stable under normal conditions of storage and use.  
Conditions to avoid: Foam is degraded superficially by prolonged action of direct sunlight.  
Materials to avoid: Solvents (acetone, dimethylformamide...).  
Hazardous decomposition products: None under normal conditions of storage and use.

**11 TOXICOLOGICAL INFORMATION**

Assessment criteria: Polyisocyanurate foam, that is a variant of polyurethane foam, is not considered as a hazardous product at toxicological level. Nevertheless, toxicity due to smoke from its combustion has to be considered, as well as irritant effect for the respiratory apparatus produced by the dust that can be produced during mechanizing process of the product.  
Inhalation: Dust is inert.

**12 ECOLOGICAL INFORMATION**

Mobility: Product floats in the water.  
Persistence/degradation: Product is being degraded by prolonged action of direct sunlight.  
Bioaccumulation: Not bioaccumulable. No CFC's or HCFC's present.

**ESPUMA PIR****13 DISPOSAL CONSIDERATIONS**

Product disposal:	Treat product as inert. Dispose product under established and controlled conditions.
Packaging disposal:	Packaging may be treated separately from product.
Legislation:	Final disposal procedure must be in accordance to valid legislation. If no valid legislation, consult with local authorities.

**14 TRANSPORT INFORMATION**

Product is not classified for any mode of transportation.

**15 REGULATORY INFORMATION**

Product does not need any label according to 91/155/CE directive.

Hazard symbol	: None.
UE Risk phrases (R)	: None.
UE Safety phrases (S)	: None.

**16 OTHER INFORMATION**

Use and restrictions: Use as thermal insulation product.

The information described within this document is based on our current knowledge, and it is our aim to describe the product only in relation to health, safety and environment. Therefore, the information shall not be interpreted as a warranty of no specific property of the product. Consequently, it corresponds to the user under its exclusive responsibility to decide if this information are appropriate and useful.

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This is a full revision of Rev: 0.0