

## SAFETY DATA SHEET

### EXPANDED POLYSTYRENE (EPS)

### REGULAR PRODUCT

.....

### 1. IDENTIFICAZION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name: Regular product ABC (block/moulded product/board).  
 Product code: EUMEPS 01 N  
 Product type: Thermoplastic  
 Supplier: .....  
 Address: .....  
 Contact numbers: .....  
 Emergency telephonenumber: .....  
 Other information: .....

.....

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation description: Expanded Polystyrene  
 Synonyms: EPS, poly (phenylethene)  
 Dangerous components/constituents:

Component name	CAS number	Content range	EC hazard	R phrases
Pentane (Mixed isomers)	109-66-0 and 78-78-4	< 2 wt-% max	F	R11

Other information: CAS number for polymer component  
 (> 97 wt-%) = 9003-53-6 (polystyrene)

.....

### 3. HAZARDS IDENTIFICATION

Human health hazards: No specific hazards.  
 Safety hazards: Freshly moulded EPS releases residual pentane which may form explosive vapour-air mixtures in confined spaces, e.g. during transport and in storage.  
 Environmental hazards: No specific hazards.

Symptoms and effects:	None
First Aid - Inhalation:	No specific measures
First Aid - Skin:	No specific measures
First Aid - Eye:	No specific measures
First Aid - Ingestion:	No specific measures
Advice to physicians:	Treat symptomatically

Specific hazards:	Combustible, combustion products include carbon monoxide and carbon dioxide. Smoke, which may reduce visibility, and traces of styrene may also be released.
Extinguishing media:	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires.
Unsuitable extinguishing media:	Water in a jet
Protective equipment:	Full protective clothing and self-contained breathing apparatus.
Other information:	Keep adjacent products cool by spraying with water.

Personal precautions:	Remove ignition sources. Extinguish naked flames. No smoking. Avoid sparks.
Personal protection:	No specific measures.
Environmental precautions:	Prevent spillage by good housekeeping measures.
Clean-up methods:	Collect and dispose of (see section 13)
Other information:	None.

Handling:	Remove ignition sources. Extinguish naked flames. No smoking. Avoid sparks. Do not breathe fumes or vapours from heated product. Use local exhaust ventilation over hot wire cutting area. Avoid generation or accumulation of dusts.
Handling temperatures:	Ambient.
Storage:	Keep away from sources of heat or ignition. Refer also to Section 10.
Storage temperatures:	Below long term deformation temperature (85°C)
Product transfer:	See handling.

Engineering control measures:	None established
Occupational Exposure standards:	None established
Respiratory protection:	No specific measures
Hand protection:	No specific measures
Eye protection:	No specific measures
Body protection:	Standard issue work clothes. Safety shoes or boots.

Physical state:	Rigid foam with a closed cellular structure.
Form:	Block, board or moulded product consisting of small fused spherical foamed beads
Colour:	White (or coloured).
Density:	8 – 60 Kg/m <sup>3</sup> at 20 °C
Vapour density (air=1):	None
Softening point:	95-100°C
Explosion limit-upper:	7,8 % (v/v) based on residual pentane
Explosion limit-lower:	1,3 % (v/v) based on residual pentane.
Flash point:	370°C (based on no residual pentane)
Auto-ignition temperature:	450°C (based on no residual pentane)
Solubility in water:	Insoluble.
Solubility in other solvents:	Soluble in aromatics and halogenated solvents and ketones.

Stability:	Decomposes above 200°C
Conditions to avoid:	Heat, flames and sparks.
Hazardous decomposition products:	Traces of styrene monomer.

[illegible][illegible][illegible][illegible][illegible]

.....

National legislation:

.....

Uses and restrictions:	Used primarily for thermal insulation and protective packaging.
Technical contact point:	-
Technical contact number:	-
SDS history:	version 1.
Core SDS history:	First issue: 01 October 1998.
Revision highlighted:	Not applicable.
SDS distribution:	The information in this document should be made available to all who may handle the product.
Other information:	None.
References:	

DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.