

SAFETY DATA SHEET

EXPANDED POLYSTYRENE (EPS)			REGULA	AR PRODUCT
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1. IDENTIFICAZI	ON OF THE SUBS	STANCE/PREPARATIO	ON AND COM	IPANY
Supplier: Address: Contact numbers: Emergency telephonenumber: Other information:	EUMEPS 01 N Thermoplastic	OCK/mouded product/board).		0000000
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Preparation description: Synonyms: Dangerous components/co	onstituents:	Expanded Polystyrene EPS, poly (phenylethene)		
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		

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

(> 97 wt-%) = 9003-53-6 (polystyrene)

storage.

Environmental hazards: No specific hazards.

4. FIRST AID MEASURES

Symptoms and effects: None

First Aid - Inhalation:

First Aid - Skin:

No specific measures

Treat symptomatically

5. FIRE FIGHTING MEASURES

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.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering control measures:

Occupational Exposure standards:

Respiratory protection:

Hand protection:

Eye protection:

No specific measures

No specific measures

No specific measures

No specific measures

Body protection: Standard issue work clothes. Safety shoes or boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

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/m³ at 20 °C

Vapour density (air=1):

Softening point:

None
95-100°C

Explosion limit-lupper: 7,8 % (v/v) vased 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.

10. STABILITY/REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Basis for assessment: Information given is based on a knowledge of the constituents and the

toxicology of similar substances.

Acute toxity - oral:

Acute toxity - dermal:

None.

None.

Acute toxity - inhalation: Thermal decomposition at high temperatures, e.g. hot wire cutting, may

result in the release of styrene in which case the Occupational Exposure Limit for styrene should be taken into account (e.g.hot wire cutting).

Eye irritation: Not expected to be irritating.
Skin irritation: Not expected to be irritating.
Skin sensitisation: Not expected to be a skin sensitiser.

Human effects: None.

12. ECOLOGICAL INFORMATION

Basis for assessment: Information given is based on a knowledge of the constituents and the

ecotoxicology of similar substances.

Mobility: Floats on water.

Persistence/degradability: Not inherently biodegradable. Bioaccumulation: Does not bioaccumulate.

Sewage treatment: Not dangerous.

Other information: Small EPS particles may have physical effects on aquatic and terrestrial

organisms. Tipically EPS particles pass through the digestive systems of

animals chemically unchanged.

13. DISPOSAL CONSIDERATIONS

Precautions: None.

Packaging disposal:

Waste disposal: Recover or recycle, if possible. Otherwise incineration in a state-of-the-art

waste combustor or lincensed landfill.

Product disposal: Recover or recycle, if possible. Otherwise, dispose in incineration in a

state-of-the-art waste combustor or lincensed landfill. Remove all packaging for recovery or waste disposal.

Local legislation: Not classified as chemical waste.

14. TRANSPORT INFORMATION

General information: Not classified under international/national regulations for road/maritim/air transport and

inland navigation.

Shipping Name: Not applicable.

Local regulations:

Other information: Packages must be marked "Keep away from sources of ignition". Hazard symbol not legally

required for sea transport.

15. REGULATORY INFORMATION

EC label name: EC Classification: EC Symbols: -

EC Risk phrases: In use, may form flammable/explosive vapour-air mixture, based on residual pentane.

EC Safety phrases:

EINECS (EC): All components listed or polymer exempt.

MITI (Japan):
TSCA (USA):
AICS (Australia):
DSL (Canada):
AII components listed.
AII components listed.
AII components listed.
AII components listed.

National legislation:

16. OTHER INFORMATION

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.

None.

Other information:

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.