

SINTERED EXPANDED POLYSTYRENE

Section 1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product code : **Not applicable**
Product name : **Sintered Expanded Polystyrene Isothermal Containers;**
Sintered Expanded Polystyrene Panels;

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

Description/Use : Packing containers and materials for secondary packaging of food, chemical and pharmaceutical products.

1.3 Identification of the company/undertaking

Company : Dryce S.r.l.
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Section 2 Hazards Identification

What stated below refers to the substance used to produce components in sintered expanded polystyrene.

2.1 Classification of substances and mixtures

The product is not classified as dangerous pursuant to the provisions laid down in Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments).

2.2 Label elements

Labelling compliant with (EC) n. 1272/2008 regulation: not applicable
Pictograms: not applicable
Signal word: not applicable
Hazard statement(s): not applicable
Precautionary statement(s): P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235: Keep cool.

The product is not classified as dangerous pursuant to the provisions laid down in Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments).

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: This mixture does not satisfy PBT requirements set forth in the REACH regulation, All. XIII

vPvB: This mixture does not satisfy PBT requirements set forth in the REACH regulation, All. XIII

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Section 3 Composition/Information on Ingredients

3.2 Mixtures

Description:	Mixture composed by a polymer and the following substances
Polymer:	Polystyrene, CAS 9003-53-6
Hazardous substances:	Pentane, CAS 109-66-0, <2%
EINECS 203-692-4	Flam liq. 2, H225; Asp. Tox. 1, Aquatic Chronic 2, H411; STOT SE 3, H336
Registration number 01-2119459286-30-XXXX	
Additional information:	The text of hazard statements is reported in section 16

Section 4 First Aid Measures

4.1 Description of first aid measures

General directives:	Move the injured away from danger zone.
Inhalation:	Move the victim to a well-ventilated area, in case of any symptoms seek medical advice. Pentane inhalation may cause irritation of respiratory airways. High concentration of Pentane may cause narcosis. If the victim can't breathe, perform artificial respiration.
Skin contact:	Generally, the product does not cause irritation to the skin.
Ingestion:	No measures are required in case of ingestion of the neat product. If necessary, seek medical advice.

4.2 Main symptoms and effects, both acute and delayed

Pentane fumes may cause irritation and reddening of the eyes.

4.3 Identification of any immediate medical attention and special treatment needed

Information not available.

Section 5 Firefighting Measures

5.1 Extinguishing media

SUITABLE EXTINGUISHING MEDIA: Water spray, foam, foam, chemical powder, carbon dioxide.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASON: Water jets.

5.2 Special hazard arising from the substance or mixture

Combustion products: Carbon dioxide, carbon oxide (at low level of available air/oxygen) and possible unburned hydrocarbons.

5.3 Advice to firefighters

Equipment: Normal firefighting clothing, i.e. protective fire kits (EN469), gloves (EN659) and boots (HO A29 or A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (EN 137).

Additional information: Cool down containers near flames with water spray.

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Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures.

Remove ignition sources. Extinguish naked flames. Do not smoke. Avoid sparks. Take precautions to avoid static electricity surges.

6.2 Environmental Precautions

Gases/Fumes are heavier than air and might propagate at floor level.

6.3 Methods and materials for containment and cleaning up

Collect with available mechanical means. Reuse if possible or dispose in compliance with regulation in force (see section 13). Collect with available mechanical means into labelled and sealed containers.

6.4 Reference to other sections

For information related to safe handling, see section 7.

For information related to protective equipment for personal use, see section 8.

For information related to disposal of contaminated material, see section 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling

Transport of the product:

Protect from heat and direct sunlight, ensure good ventilation even at floor level (fumes are denser than air).

Directives for prevention of fire and explosion:

Extinguish naked flames, do not smoke, avoid sparks. Remove sources of ignition.

General recommendation on work hygiene:

Respect normal measure of personal hygiene, in particular do not eat, drink or smoke during handling.

Wash hands before interval or when work is done.

Keep away from food, beverages or animal feed.

7.2 Conditions for safe storage, including any incompatibilities

Store the product in cool and well-ventilated places; avoid direct exposition to sunlight; keep away from heat or ignition sources (don't smoke, naked flames are forbidden).

7.3 Specific End Use(s)

Information not available.

Section 8 Exposure Controls/Personal Protection

8.1 Control Parameters

Information not available.

8.2 Exposure Controls

General safety measures when handling chemicals are applicable.

RESPIRATORY PROTECTION : Not required.

EYE PROTECTION : Not required.

HAND PROTECTION : Not required.

SKIN PROTECTION : Not required.

Section 9 Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance : Solid

Colour : White

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Odour	: Soft
Olfactory threshold.	: Not available
Ph	: Not available
Melting point or freezing point	: Not available
Initial boiling point	: Not available
Flash point.	: Not applicable
Ignition temperature	: 285 °C (Pentane)
Explosion hazard	: Non-explosive product
Lower flammability limit	: 1,3 vol% (Pentane)
Upper flammability limit	: 7,8 vol% (Pentane)
Vapor pressure a 37,8 °C	: 151 kPa (Pentane)
Vapor density	: Not available.
Relative density	: da 15 a 30 g/l
Solubility	: Insoluble in water
Viscosity	: Not available

9.2 Other information

Information not available.

Section 10 Stability and Reactivity

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| 10.1 Reactivity | : No specific hazard of reactions with other substances under normal condition of use |
| 10.2 Chemical stability | : The product is stable in normal conditions of use and storage.
Thermal decomposition due to direct exposure to sunlight or heat sources. |
| 10.3 Possibility of hazardous reactions | : No known hazardous reactions |
| 10.4 Conditions to avoid | : Temperatures higher than 30 °C in non-ventilated environments.
Heat, flames, sparks, exposure to sunlight for long periods. |
| 10.5 Incompatible materials | : Oxidising substances. |
| 10.6 Hazardous decomposition products | : Information not available. |

Section 11 Toxicological Information

Exposure to the product is not thought to produce adverse health effects. Nevertheless, observance of good industrial hygiene is recommended.

Section 12 Ecological Information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1 Toxicity

Information not available.

12.2 Persistence and Degradability

The product is made essentially made of a polymer with high molecular weight, not considered eco-toxics

12.3 Bio-accumulative Potential

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Information not available

12.4 Mobility in Soil

Information not available.

12.5 Results of PBT and vPvB assessment

On the bases of the available data, this product does not contain any PBT or vPvB substances in percentage greater than 0,1%.

12.6 Other adverse effects

Information not available.

Section 13 Disposal Considerations

13.1 Waste treatment methods

Residue must be disposed of as required by national and local regulation in force.

Handling residue requires the same care and application of safety principles used when handling the product.

Surplus or residue deriving from use, have to be handled adopting precautions and means as indicated in section 7 and 8.

Incineration must be carried out under approved conditions, possibly reclaiming energy and at plants able to wash out fumes before emission into the atmosphere.

Avoid dispersal of spilt material, runoff and contact with soil, waterways and sewers.

Section 14 Transport Information

The product is not dangerous under current provisions of the Code of International Carriage of Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislations specific for the substance or mixture

Seveso category. None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

None.

Substance in Candidate List (Art. 59 REACH).

None.

Substances subject to authorization (Annex XIV REACH).

None.

Substances subject to export notification obligation EC Reg. 689/2008:

None.

Substances subject to Rotterdam Convention:

None.

Substances subject to Stockholm Convention:

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None.

Health checks.

Information not available.

- 15.2 Chemical Safety Assessment** : No chemical safety assessment has been performed for the mixture and substances the product contains.

Section 16 Other information

Relevant statements:

- H225 Highly flammable liquid and vapour
- H304 May be fatal if swallowed and enters airways
- H336 May cause drowsiness or dizziness
- H441 Toxic to aquatic life with long-lasting effects

LEGEND:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Concentration of a compound where 50% of its maximal effects is observed
- EC NUMBER: identifier number in ESIS (European Chemical Substances Information System)
- CLP: Regulation (EC) n° 1272/2008
- DNEL: Derived no-effect level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for the Classification and Labelling of Chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulations
- IC50: Inhibitory Concentration
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organization
- INDEX NUMBER: Index number in Annex VI to CLP
- LC50: Lethal Concentration (50%)
- LD50: Lethal Dose 50%
- OEL: Occupational exposure limit
- PBT: Persistent Bio-accumulative and Toxic according to REACH
- PEC: Predicted Environmental Concentration
- PEL: Permissible Exposure Limits

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- PNEC: Predicted no-effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the International Carriage of Dangerous Goods by Road
- TLV: Threshold Limit Value
- TLV CEILING: absolute exposure limit that should not be exceeded at any time
- TLV STEL: - TLV Short-Term Exposure Limit
- TLV TWA: TLV Time-Weighted Average
- VOC: Volatile Organic Compound
- vPvB: very Persistent and very Bio-accumulative.

GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Apt. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 (II Apt. CLP) of the European Parliament
8. The Merck Index 10th edition
9. Handling Chemical Safety
10. Niosh – Registry of Toxic Effects of Chemical Substances
11. INRS – Fiche Toxicologique (toxicological sheet)
12. Patty – Industrial Hygiene Toxicology
13. N.I. Sax – Dangerous properties of Industrial Materials – 7, 1989 Edition
14. ECHA Website

Indication of Changes: Revised safety data sheet for the updating of the Logo.

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee of any specific product property.

The use of this product is not subject to our direct control; therefore, users must under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide personnel with a proper chemical handling training.

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