



TLA

MATERIAL

SAFETY



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energystoreltd.com

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

1.1 Identification of the product

Name: energystore TLA®

Chemical Type: mixture

1.1 Use and employment of the preparation

energystore TLA® combines eps beads coated in an innovative additive with cement and water to create a pourable insulation. This unique poured insulation offers a non-combustible alternative for use in floor and roof construction as a high strength void former or insulation.

1.2 Identification of the company

Name: energystore Ltd

Address: 21 – 23 Shore Road, Hollywood,

Co. Down, BT18 9HX

Telephone: 02890 428 442

1.3 Emergency telephone number: 0800 086 6687

2. HAZARD INDICATIONS

2.1 Classification of the preparation or mixture

The present safety information data sheet is related to a preparation which has been classified as non-hazardous. Regulation (CE) 1272/2008 (CLP) classification; not dangerous.

2.2 Labels elements

The mixture is not dangerous. Precautionary Statements; Do not eat, drink or smoke when using this product; Avoid breathing dust / fumes / gas / mist / vapours / spray; Keep out of reach of children; Dispose of contents / container in conformance with local regulations; Do not get in eyes, on skin or on clothing.

2.3 Other hazards

The product does not meet the criteria for PBT and vPvB in accordance with Annex XIII of REACH (Regulation 1907/2006/EC).

3. INFORMATION ON INGREDIENTS AND COMPOSITION

3.1 Composition information

Pre-mixed expanded polystyrene beads.

The preparation is composed of the following hazardous substances and classified according to Regulation 1272/2008/CE.

Classification Reg. 1272/2008/CE						
Substance	N.CAS	EINECS	Concentration	Dangerous Class	Dangerous Category	Dangerous Indication
Pentane	109-66-0	203-692-4	< 1 %	Flam. Liq	2	H225

The product is excluded from REACH registration.

4. FIRST AID MEASURES

4.1 General indications

Do not give medicine or use medical equipment if not under control of medical staff. In case of accident, the first aid must be followed by trained staff in order to avoid further complication. Personal protective equipment (PPE) are not necessary for rescuers, but they must avoid dust inhalation and contact with humid or mixed product. If this is not possible, rescue workers must adopt PPE listed in section 8.

Inhalation

Bring the injured worker to open air. Consult a doctor if irritation persists, if it appears again later, if you develop a cough, hassles or other symptoms.

Contact with skin

In case of skin contact, wash thoroughly with water and neutral pH soap. Remove contaminated clothing and wash before using again. Consult a doctor if irritation occurs.

Contact with eyes

Do not rub your eyes. Verify that the injured worker does not wear contact lenses. If they do, remove lenses and wash immediately and thoroughly with water for at least 20 minutes to remove all residues. If irritation persists, consult a doctor. Do not use creams or eye solutions before consulting a doctor or eye specialist.

Ingestion

Do not induce vomit. If the person is conscious, wash oral cavity thoroughly. Consult a doctor or Poison control centre immediately.

4.2 Main acute and delayed symptoms and effects

Eyes

Contact with eyes can cause irritations or injury.

Skin

After a prolonged contact on humid or wet skin, it can have irritating effects or cause dermatitis.

Inhalation

A prolonged inhalation of dust for a long time can increase the risk of lung diseases.

Ingestion

Not relevant.

Environment

If in usual conditions, the product is not dangerous to the environment.

5. FIRE MEASURES

The product is non-combustible, non-flammable and non-explosive.

5.1 Appropriate extinguishing means

Foam, water (best if atomised), pulverised chemicals or sand (for smaller fires).

Extinguishing means that should not be used for safety reasons

None.

Information about appropriate extinguishing means

Not relevant.

5.2 Special hazards of the mixture

None.

5.3 Advice for firefighters

None.

6. PROVISIONS IN CASE OF ACCIDENTAL DISPERSION

6.1 Personal precautions, protective equipment and emergency procedures

Move all persons not involved in the emergency intervention away from the area concerned with the spill. Wear a mask, protective eyewear, gloves and protective clothing. Contain the leak if possible if it does not entail risks.

Whenever possible operate windward. Provide adequate ventilation of the premises concerned with the spill. Avoid prolonged contact with skin and eyes and do not inhale dust.

6.2 Environmental precautions

Contain leaks with soil or sand. Plant design systems and operational procedures must be used to prevent the product, if dissolved in water or other liquids, from reaching the drainage system, wells or streams. If the leak reaches water systems or has contaminated the ground or vegetation, notify the relevant authorities. Collect the product as quickly as possible, wearing PPE. Contain the product from spreading and collect mechanically, avoiding dispersion. Then wash the contaminated area and materials with water.

6.3 Methods and material for containment and cleaning up

Leaks should be contained using soil, sand or bunding. Once the leak has been contained, it should be collected mechanically. The spillage area should be cleaned with water.

6.4 Reference to other sections

If necessary, see sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Safe handling

Always avoid contact with skin and eyes and a prolonged exposure to dusts. Do not drink, eat or smoke in work areas.

7.2 Safe storage

Keep the product away from water and humid places. Keep only in original, well closed and labelled containers. Stock in well ventilated, dry and cool places where there is no direct sunlight. Keep out of the reach of children. Keep away from fodder, drinks and animal food. Consult section 10.

7.3 Specific end uses

None.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Pentane. UK exposure limits TWA 600ppm.
1800mg.m⁻³

Pentane. ROI exposure limits TWA 1000ppm.
3000 mg.m⁻³

8.2 Exposure controls

Individual protection measures such as personal protective equipment.

Eye / face protection

Wear safety glasses or masks certified according to EN 166 when handling the product to prevent any contact with the eyes. Do not wear contact lenses.

Skin protection

Wear shoes and / or safety boots and work clothing (long sleeves and trousers) as well as products for skin care to ensure maximum protection from dermal prolonged contact with wet mixture.

Hand protection

Use protective gloves, sealed to abrasion and alkalis, certified according to EN 374- parts 1, 2, 3.

Respiratory protection

Where an employee will be exposed to a concentration of respirable particulate matter above the exposure limit, use appropriate respiratory protection devices, such as Filtering Facepieces (FFP) certified according to EN 149 or dust masks (FMP) certified according to EN 140, EN 14387 and EN 1827. The workplace must be adequately ventilated. If necessary, install the appropriate sources of effective local exhaust ventilation or air exchange systems. If you can not make use of appropriate respiratory protection.

General measures and information: General advice

Professional Exposure limits: following are the Professional Exposure limits reported for the single substances which constitute the preparation, and which are mentioned in point 2 of this Safety Data Sheet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid in
Physical State	spherical granules
Smell	Odourless
pH	Not applicable
Boiling / Interval Point (at atmospheric pressure)	Not applicable
Softening Point	>80 - 100°C
Flammability (solid, gas)	>320°C
Ignition Point	Not applicable
Explosive Properties: explosion limit (in % of air volume)	Not applicable
Combustive Properties	Not applicable
Vapour Pressure	Not applicable
Relative Density	8 – 12 kg / m ³
Vapour Density (Air = 1)	Not applicable
Hydro Solubility	Insoluble
Solubility in fat and / or inorganic solvents	Soluble
Viscosity	Not applicable

10. STABILITY AND REACTIVITY

10.1 Reactivity

It could emit styrene and its products of oxidation.
The dry product is chemically stable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Not Applicable

10.4 Conditions to avoid

The presence of humidity or solar radiation during storage can cause a reduction in product quality.

10.5 Incompatible materials

Unknown

10.6 Dangerous decomposition products

None

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

No toxicological data is available on the mixture as a whole. Note the concentrations of each substance in assessing the toxicological effects deriving from exposure. Set out below is the toxicological information relating to the main substances in the mixture. Experimental studies have not been performed on the preparation itself. For aspects of toxicity to humans it is therefore necessary to measure the individual hazardous ingredient substances of the mixture as set out in section 3 of this document.

11.2 Acute toxicity by oral, dermal and inhalation

No experimental value is available or relevant for the substances that make up the mixture.

11.3 Corrosion and / or irritation to skin, eyes and respiratory tract

The mixture is classified as non-dangerous.

11.4 Sensitisation of skin or respiratory tract

There is no information available about the sensitising effects of the mixture.

11.5 Long-term toxicity

It is believed that the mixture does not have potential or proven effects following prolonged exposure.

11.6 Carcinogenicity, mutagenicity and reproductive toxicity

It is believed that the mixture does not have potential or proven carcinogenicity to humans. It is believed that the mixture does not have potential or proven mutagenic effects in humans. It is believed that the mixture does not have potential or proven reproductive toxicity effects in humans.

11.7 Exposure

The potential routes of exposure are skin and eye contact. Use according to good working practices.

12. ENVIRONMENTAL INFORMATION

12.1 Toxicity

Eco toxicological data are not available on the mixture as a whole. The product is not dangerous to the environment. There is no indication of toxicity in the sediment phase. In the event of dispersion of large quantities of product in water, due to the resulting increase in the pH, there could be possible effects of eco-toxicity to aquatic life in certain circumstances.

12.2 Persistence and degradability

Not relevant. After curing, the product does not pose a risk of toxicity.

12.3 Potential for bioaccumulation

Not relevant. After curing, the product does not pose a risk of toxicity.

12.4 Mobility in soil

Not relevant. After curing, the product does not pose a risk of toxicity.

12.5 Results of PBT and vPvB Assessment

Not relevant. After curing, the product does not pose a risk of toxicity.

12.6 Other adverse effects

Not relevant.

13. REMARKS ON DISPOSAL

13.1 Methods of treatment of the waste

For handling measures in case of accidental waste material dispersion, the general indications provided in section 6 and 7 are valid in general; nevertheless, caution and specific actions in relation to the composition of the waste material must be evaluated. The product and its mixes, classified as non-dangerous, do not show particular risks for an eventual disposal, if you take care to avoid discharge or dispersion into sewers, drains or water courses. Empty packaging must be handled according to the regulations in force about non-dangerous products. Caution and specific actions must be evaluated in relation to the composition of the waste material. Act in accordance with local and national regulations.

14. INFORMATION ABOUT TRANSPORTATION

14.1 Dangerous for transport by road – ADR NO

The product does not fall within any class of danger for the transport of dangerous goods and is not, therefore, subject to its modal regulations: IMDG (by sea), ADR (by road), RID (by rail) or ICAO/ IATA (by air). During transportation use closed containers to avoid wind dispersal.

15. INFORMATION ABOUT LEGISLATION

Requirements of Regulation No. 1907/2006/EC as amended from time to time. The Regulations referred to in this section are indicative and not exhaustive. The user of the product is required to investigate in each the regulations and recommendations relating to the proper use of the product.

16. OTHER INFORMATION

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however, no guarantee is made to its accuracy. This information relates only to specific material designated and may not be valid for such material used in combination with any other materials or in any other process.



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