

Page:
 Product:
 Created on:
 Printed on:
 According to

 1 от 9
 TERMOFLEX® EPS W-40
 28.07.2014
 28.08.2018
 Regulation (EU) 2015/830

TERMOFLEX® EPS W-40

THERMAL INSULATION BOARDS FROM EPS

thermal insulation boards from EPS with extremely strength
for thermal insulation of heavily loaded places

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Product
Trade name : TERMOFLEX® EPS W-40

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

1.2.1. Relevant identified uses

TERMOFLEX® EPS W-40 is a high quality self-extinguishing thermal insulation material from expanded polystyrene (EPS) with very high strength and mechanical properties. The boards are quite suitable and optimized for thermal insulation of premises that are subjected to extreme loading pressure (planted roofs, walking area roofs, under screeds, under flat, sloping or inclined roof, roof terraces, floors between levels, floor heating and others). Recommended also for thermal insulation and avoiding thermal bridges (balconies, windows and doors, concrete columns, beams and bay-windows and others).

1.2.2. Uses advised against

No additional information available than those specified in the technical documents of the product.

1.3. Details of the supplier of the safety data sheet

MARISAN & Kolev Ltd.
East Industrial Zone
15, Kalna Dere Str.
7009, Ruse, Bulgaria
Tel.: +359-82-519 721
e-mail: office@marisanbg.com – <http://www.marisanbg.com/bg>

1.4. Emergency telephone number

Tel.: 112

Country	Organization/company	Address	Emergency telephone number
Bulgaria	National Toxicology Center Hospital for Active Medical Treatment and Emergency Medicine "N.I. Pirogov"	21 Gen. „Edward I. Totleben“ Blvd. 1606 Sofia	+359 2 9154 233

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or the mixture – mixture:

2.1.1. Classification in according to Regulation № 1272/2008 (CLP)

The product is not classified as hazardous.

2.1.2. Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling in accordance with Regulation (EC) 1272/2008 (CLP)

Hazards pictograms (CLP)	Not applicable
Signal word (CLP)	Not applicable
Hazardous ingredients	Not applicable
Hazard statements (CLP)	Not applicable
Precautionary statements (CLP)	Not applicable
EUH-statements	Not applicable

2.3. Other hazards

No additional information available
 Results from PBT or vPvB hazards:
 - PBT – the mixture is not tested
 - vPvB – the mixture is not tested

3. Composition / Information on ingredients

3.1. Substances - not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EU) № 1272/2008 [CLP]
Expanded polystyrene	CAS № 9003-53-6 EINECS № 215-137-3	> 99	Not classified
Mixture Pentane, isopentane	CAS № 9003-53-6 EINECS № 215-137-3 01-2119459286-30-**** CAS № 9003-53-6 EINECS № 215-137-3 01-21199475602-38-****	≤ 1	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Chronic 2, H411; STOT SE 3, H336

Note: There is incombustible additive in the product (polymeric agent for pFR).

Full text of H-phrases: see Section 16.

Page:
Product:
Created on:
Printed on:
According to

3 of 9
TERMOFLEX® EPS W-40
28.07.2014
28.08.2018
Regulation (EU) 2015/830

4. First aid measures

4.1. Description of first aid measures

First aid by inhalation:

Remove the person to fresh air and keep comfortable for breathing. If complaints continues seek medical help.

First aid by skin contact:

Wash skin with lots of water. No adverse impacts on this way of action are expected.
If skin irritation or rash occurs: Get medical advice/attention.

First aid by eye contact:

No adverse impacts on this way of action are expected. After removing the contact lenses, rinse the eyes with lots of water for 15 minutes by lifting the eyelids. If complaints continues seek medical help.

First aid after ingestion:

Unusual exposure. Rinse mouth thoroughly with water. Do not induce vomiting, but if it happens, keep the head upright to avoid inhalation. If you feel unwell, call a toxicology center or doctor.

4.2. Most important symptoms and effects, both acute and delayed

There are not known health effects caused by the product. Nevertheless, it is recommended good manufacturing and hygiene practice.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Symptoms and effects are described in sections 2 and 11.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Water spray, foam, carbon dioxide, dry powders.

Unsuitable extinguishing agents for security reasons:

Strong water stream

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: It is possible to release toxic fumes - carbon monoxide (CO), carbon dioxide (CO₂), smoke, nitrogen oxides.

5.3 Advice for firefighters

Protection during firefighting:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. It is recommended to cool the non-flammable packaging with water and / or move it to a safe place.

5.4. More information:

In case of fire thick black smoke is formed, accompanied by intensive soot separation. Inhalation of substances released by decomposition may cause serious health injuries. Fire residues and contaminated fire extinguishing water must be removed in accordance with local regulations.

Page: 4 от 9
Product: TERMOFLEX® EPS W-40
Created on: 28.07.2014
Printed on: 28.08.2018
According to: Regulation (EU) 2015/830

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

6.1.1. For non-emergency personnel

Performs the instructions of the emergency responder staff responsible for emergencies according to the disaster and accident evacuation plan.

6.1.2. For emergency responders

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Precautions for environmental protection:

No special measures are necessary.

6.3. Methods and materials for containment and cleaning up:

Cleaning methods:

No special measures are necessary. The product should be collected mechanically. Prevent the formation of dust.

Other information:

The materials or solid residues should be disposed of at the designated location.

7. Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:

Ensure good ventilation on the workplace. Do not breathe dust or gasses. Provide a fire extinguisher.

Hygiene measures:

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities:

Conditions for storage:

Protect from direct sunlight, heat, open flame, sparks and other sources of ignition.

Store in dry and flat place.

Take safety measures against electrostatic loading and discharge.

Take into account incompatibility with organic solvents.

Store at temperatures below 80 ° C.

7.3. Specific and end-use(s)

The product has no other uses than those specified on the label and product data sheet.

8. Exposure controls/personal protection

8.1. Control parameters

The product is not classified as hazardous according to Regulation (EC) 1272/2008 on Classification, packaging, labelling of hazardous chemicals substances and mixtures but contains workplace related component subject to limited values:

Page: 5 of 9
 Product: TERMOFLEX® EPS W-40
 Created on: 28.07.2014
 Printed on: 28.08.2018
 According to Regulation (EU) 2015/830

pentane (109-66-0)	
TLV (BG)	Limited values 8 hours: 3000,0 mg/m ³ , 1000 ppm
IOELV (EU)	Limited values 8 hours: 3000,0 mg/m ³ , 1000 ppm
AGW (DE)	Limited values 8 hours: 3000,0 mg/m ³ , 1000 ppm 2 (II); DFG, EU, Y

8.2. Exposure control

Appropriate technical control:

Ensure good ventilation on the workplace.

Hand protection:

Recommended - protective gloves. After washing hands, the lost greasy skin is restored using fat-containing cream.

Eye protection:

Recommended – By mechanical processing (grinding, sawing, drilling, cutting) and dust removal, use safety goggles type 2A5 in accordance with EN 166.

Skin and body protection:

Wear suitable protective clothing.

Respiratory protection:

No special protection is required. Normal/natural ventilation is sufficient. In the case of insufficient ventilation and exposure to dust above the exposure limits, use a multifunctional filter with a transmittance class depending on the concentration of the pollutants in accordance with the relevant EN 149.

Environmental exposure control:

The product is not classified as hazardous to the environment.

It is necessary to control the emissions of ventilation systems and product processing equipment in order to verify that they comply with the requirements of the environmental protection regulations. Based on this control, the need for the introduction of appropriate environmental risk management measures can be identified.

9. Physical and chemical properties

9.1. Information about the physical and chemical properties:

Appearance	solid in various forms
Color:	according to the product designation
Odor:	no
pH:	not applicable
Melting point:	not applicable
Freezing point:	0°C (on water)
Interval / Temperature of boiling:	> 100°C; 60-80°C – softening temperature
Flash point:	not applicable
Auto ignition point:	n-pentane - 49°C isopentane - 51°C
Decomposition temperature:	The product is not self-igniting
Temperature of inflammability and explosion:	There is no hazard of explosion

Page: 6 от 9
 Product: TERMOFLEX® EPS W-40
 Created on: 28.07.2014
 Printed on: 28.08.2018
 According to Regulation (EU) 2015/830

Lower limit: -
 Upper limit: -
 Relative density: 30 – 31 kg/m³
 Bulk density: Not applicable
 Solubility: In organic solvents, aromatic hydrocarbons, ketones
 Mixing with water: In the form in which it is sold, the product is mixed with water

10. Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of work and storage.
 Thermal decomposition is possible at temperatures above 100°C.

10.3. Possibility of hazardous reactions

There is no known hazardous reaction by proper use and storage.

10.4. Conditions to avoid

Avoid temperatures above 100°C.
 Avoid all sources of ignition: heat, sparks, and open flames.
 Avoid direct exposure to sunlight.
 Avoid electrostatic discharge.

10.5. Incompatible materials

Keep away from strong acid and alkaline materials as well as oxidizing agents.

10.6. Hazardous products of decomposition

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

11.1. Information on toxicological effects

acute toxicity

Based on available data, the classification criteria are not met.

corrosivity /irritation of the skin

Based on available data, the classification criteria are not met.

serious eye damage/irritation

Based on available data, the classification criteria are not met.

respiratory and skin sensitisation

Based on available data, the classification criteria are not met.

germ cell mutagenicity

Based on available data, the classification criteria are not met.

carcinogenicity

Based on available data, the classification criteria are not met.

reproductive toxicity

Based on available data, the classification criteria are not met.

STOT- (specific target organ toxicity) - single exposure

Based on available data, the classification criteria are not met.

Page:
Product:
Created on:
Printed on:
According to

7 от 9
TERMOFLEX® EPS W-40
28.07.2014
28.08.2018
Regulation (EU) 2015/830

STOT- (specific target organ toxicity) - repeated exposure

Based on available data, the classification criteria are not met.

aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information**12.1. Toxicity**

To our knowledge, negative environmental effects should not be expected, is not considered harmful to aquatic organisms and does not cause long lasting adverse effects on the environment. There is no evidence of material degradation and elimination behavior.

12.2. Persistence and degradability

Based on the available data on elimination /degradation and bioaccumulation potential, it is unlikely that environmental damage will be expected in the long term. There is no evidence of material degradation and elimination behavior.

12.3. Bioaccumulative potential

The product has no bioaccumulative potential because of the structural properties of the polymer. No accumulation in organisms is expected.

12.4. Mobility in soil

Soil: Expanded polystyrene does not rot, but helps the process of rotting in landfills and composting.

Water: Expanded polystyrene is chemically neutral, does not dissolve in water and does not release water-soluble substances that can lead to groundwater contamination.

Air: No additional information available.

12.5. Results of PBT and vPvB assessment

The product does not meet the criteria for PBT (persistent/bioaccumulative /toxic) and vPvB (very persistent /very bioaccumulative).

12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 for substances that degrade the ozone layer.

13. Disposal considerations**13.1. Waste treatment methods**

It can be reused after recycling and should be disposed in accordance with the instructions for sorting a licensed waste company. Procedures for elimination and disposal must comply with all local, national and international laws and regulations.

17.06.04 insulating materials other than those mentioned in 17.06.01 and 17.06.03

13.2. Packaging wastes:

Fully emptied packaging can be reused or can be handed over for recycling. Contact the manufacturer about recycling.

15.01.02 plastic packaging

14. Transport information

Page:
Product:
Created on:
Printed on:
According to

8 от 9
TERMOFLEX® EPS W-40
28.07.2014
28.08.2018
Regulation (EU) 2015/830

In accordance with ADR/RID/IMDG/IATA/AND

14.1 UN Number

UN Number (ADR)	Not applicable
UN Number (IMDG)	Not applicable
UN - № (IATA)	Not applicable
UN Number (AND)	Not applicable
UN Number (RID)	Not applicable

14.2 UN proper shipping name

Proper Shipping Name (ADR):	expanded polystyrene
Proper Shipping Name (IMDG):	expanded polystyrene
Proper Shipping Name (IATA):	expanded polystyrene
Proper Shipping Name (ADN):	expanded polystyrene
Proper Shipping Name (RID):	expanded polystyrene

14.3 Transport hazard class (es)

Transport hazard class (es) (ADR)	Not applicable
Transport hazard class (es) (IMDG)	Not applicable
Transport hazard class (es) (IATA)	Not applicable
Transport hazard class (es) (ADN)	Not applicable
Transport hazard class (es) (RID)	Not applicable

14.4 Packing group (ADR)

Packing group (ADR)	III
Packing group (IMDG)	III
Packing group (IATA)	III
Packing group (ADN)	III
Packing group (RID)	III

14.5 Environmental hazards

Hazardous for the environment	No available
Marine pollutant	No available
Other information	No available

14.6 Special precautions for users

Overland transport (ADR)	comply with storage requirements
Transport by sea (IMDG)	comply with storage requirements
Air transport (IATA)	comply with storage requirements
Inland waterway transport (ADN)	comply with storage requirements
Rail transport (RID)	comply with storage requirements

15. Regulatory information

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

- The product does not contain substances from the REACH Candidate List

Page: 9 of 9
 Product: TERMOFLEX® EPS W-40
 Created on: 28.07.2014
 Printed on: 28.08.2018
 According to: Regulation (EU) 2015/830

- Labeling according to Regulation (EC) No 1272/2008 [CLP]
- Classification according to Regulation (EC) No 1272/2008 [CLP]
- The product does not contain ozone depleting substances according to Regulation (EC) 1005/2009
- Protection against the harmful impact of chemical substances and preparations act
- Environmental protection act
- Waste management act
- Regulation on the procedure and method of classification, packaging and labeling of chemical substances and mixtures
- Regulation on the order and manner of storage on dangerous chemical substances and mixtures
- Regulation for the prevention of major accidents with hazardous substances and for limiting the consequences
- Regulation No 13 on the protection of workers from the risks related to exposure to chemical agents at work

15.2. Chemical safety assessment

According to health assessment of the applicability of thermal insulation materials of 28.09.2006 the product does not create conditions for the occurrence of health risk.

16. Other Information

16.1. Full text of H- and EUH-statements:

Flam. Liq. 2	Flammable liquids, hazard category 2
Asp. Tox. 1	Aspiration hazard, hazard category 1
Chronic 1	Hazardous for the aquatic environment - Chronic Category 1
STOT SE 3	Specific target organ toxicity - single exposure, hazard category 3
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

These phrases do not apply to the product itself, they are for information only and refer to the individual ingredients listed in section 3.

The EU SDS (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product only for health, safety and environmental purposes. Therefore, it should not be construed as a guarantee of the properties of the product.

The data in this Safety Data Sheet are based on the current state of our knowledge and satisfy the national legislation and the legislation of the EU. The specific conditions of work of the relevant user, however, are beyond our knowledge and control. The user shall be obligated under his own responsibility to conform to the relevant existing legal norms and provisions. The data in this Safety Data Sheet describe the requirements for security and do not constitute any guarantee for the properties of the product.