

**KORE**

Airpacks Ltd, KORE Insulation, Kilnaleck, Co. Cavan, A82 T291, Ireland.
T +353 49 4336998 F+353 49 4336823 E info@kore-icf.com W kore-system.com

Material Safety Data Sheet
Issue Date: 30/10/2015

KORE Expanded Polystyrene
Version 2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| | |
|--|---|
| 1.1 Product Identifier Generic Product Name: | Expanded Polystyrene (EPS) |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against Recommended use: | Insulation, building material, packaging |
| 1.3 Details of the supplier of the SDS Producer | Airpacks Ltd t/a KORE System, The Green, Kilnaleck, Co. Cavan. T: +353494336998 E: info@koresystem.com W: www.kore-system.com |

2. HAZARDS IDENTIFICATION

| | |
|---|--|
| 2.1 Classification of the substance or mixture European directive 67/548/EEC: Regulation (CE) n°1272/2008: | This product is not classified This product is not classified |
| 2.2 Label elements: | None |
| 2.3 Other hazards: | |
| Most important hazard | Polystyrene melts at high temperatures and molten droplets may cause skin burns |
| Specific hazards | Non-hazardous in finished form. Residual quantities of process chemicals, styrene and blowing agents are insignificant. The product is organic and therefore will melt if exposed to intense heat or a fire. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substance | C.A.S number ¹ | Weight % | Classification and labelling Regulation (CE) n°1272/2008 | Classification and labelling (European directive 67/548/EEC as amended 97/69/EC) | EC number |
|----------------------------|---------------------------|----------|--|---|-----------|
| Expanded Polystyrene (EPS) | 90003-53-6 | | Not Classified | Not Classified | 500-008-9 |

1. C.A.S: Chemical Abstract Service

Possible facing materials: None
Expanded Polystyrene Foam (EPS) REACH Registration number: not applicable

4. FIRST AID MEASURES

| | |
|---|--|
| <p>4.1 Description of first aid measures</p> <p>Exposure route:</p> <ul style="list-style-type: none"> - Inhalation - Skin Contact - Eye Contact - Ingestion <p>4.2 Most important symptoms and effects, both acute and delayed:</p> <p>4.3 Indication of any immediate medical attention and special treatment needed:</p> | <p>Dust particles from cutting are unlikely to be of inhalable dimensions unless power tools are used. If problems are experienced, remove to fresh air and drink water.</p> <p>After use, wash with soap and water. If in contact with molten material treat affected area immediately with cold water and seek medical attention. Do not attempt to remove any molten or solidified material from the skin.</p> <p>If dust particle enter the eye, wash with water. If any irritation symptoms persist seek medical advice.</p> <p>Drink plenty of water if accidentally ingested.</p> <p>Polystyrene melts at high temperatures and molten droplets may cause skin burns.</p> <p>If any adverse reaction or discomfort continues from any of the above exposures, seek professional and medical advice.</p> |
|---|--|

5. FIREFIGHTING MEASURES

| | |
|--|--|
| <p>5.1 Extinguishing Media Suitable extinguishing media</p> <p>5.2 Special hazards arising from the substance or mixture</p> <p>5.3 Advice for firefighters</p> | <p>Water, foam, carbon dioxide and dry powder. Sand or earth may be used for small fires</p> <p>Those normally associated with combustion of organic hydrocarbons and should be considered toxic. Will include carbon monoxide, carbon dioxide and hydrogen bromide. Trace amount of styrene can also be released.</p> <p>Dense smoke will be generated and suitable breathing apparatus should be worn along with full protective clothing when fighting fires. Keep adjacent products cool by spraying with water.</p> |
|--|--|

6. ACCIDENTAL RELEASE MEASURES

| | |
|--|--|
| <p>6.1 Personal precautions, protective equipment</p> | |
|--|--|

| | |
|---|--|
| and emergency procedures | |
| Personal Precautions | The product is in solid form and poses no hazard |
| 6.2 Environmental precautions | |
| Environmental protection | The product is in solid form and poses no hazard |
| 6.3 Methods and material for containment and cleaning up | |
| Methods for cleaning up | n/a |
| 6.4 Reference to other sections | For waste disposal, see section 13. |

7. HANDLING AND STORAGE

| | |
|---|--|
| 7.1 Precautions for safe handling | |
| - Technical measures | Hand cutting tools should be used where possible. If using power tools, suitable dust extraction should be used and/or respiratory and eye protection. |
| - Precautions | When cutting, ensure adequate ventilation of workshop is available. Be aware of strong winds especially at working at heights. |
| - Safe handling advice | No special requirements. |
| 7.2 Conditions for safe storage, including ant incompatibilities | |
| - Technical measures | Avoid exposure to heat, flames and other ignition sources. |
| - Suitable storage conditions | Do not store near to any sources of heat or ignition. Avoid prolonged exposure to sunlight. |
| - Incompatible materials | Resistant to many chemicals but not to solvents. Care should be taken in choices of adhesive used. |
| - Packaging material | Delivered on pallets, packed in polyethylene or open. |
| 7.3 Specific end use(s): | Not relevant. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|-------------------------------|--|
| 8.1 Control parameters | |
| Exposure Limit Value | None at European level, refer to member state guidelines and legislation |

| | |
|--|--|
| <p>8.2 Exposure control</p> <p>Engineering controls</p> <p>Individual protection equipment</p> <ul style="list-style-type: none"> - Respiratory Protection - Hand protection - Eye protection - Skin protection - Hygiene Measures | <p>IRL: Not relevant UK: Not relevant</p> <p>No specific requirements</p> <p>Wearing a disposable face mask type in accordance with EN 149 FFP1 or FFP2 is recommended to improve comfort.</p> <p>Not special precautions but gloves may be worn for comfort.</p> <p>Goggles especially oif cutting with power tolls or working above shoulders. Eye protection to EN 166 is advised.</p> <p>None</p> <p>After contact, wash hands with cold water and soap.</p> |
|--|--|

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| <p>9.1 Information on basic physical and chemical properties:</p> <ul style="list-style-type: none"> - Physical state - Form - Colour - Odour -pH - Boiling Point - Flash Point - Flammability - Explosive properties - Density - Water solubility - Fat solubility <p>9.2 Other information:</p> <ul style="list-style-type: none"> - Softening point - Self-ignition temperature | <ul style="list-style-type: none"> - Cellular form - Block, panel or moulding consisting of small fused balls of foam beads, or foam bead state - Either white or grey - Odourless - Not relevant - Not relevant - 350°C - Not relevant - Not relevant - From 8-60kg/m³ at 20°C - Insoluble in water and generally chemically inert. Soluble in aromatic compounds and halogenated solvents and keytones - Not applicable - 85-100°C - 450°C |
|--|---|

10. STABILITY AND REACTIVITY

| | |
|--|---|
| 10.1 Reactivity | None |
| 10.2 Chemical Stability | Stable and inert under normal conditions of use. Resistant to many chemicals but not to solvents. Care should be taken in choices of adhesives. |
| 10.3 Possibility of hazardous reactions | None in normal conditions of use. |
| 10.4 Conditions to avoid | Heating above 100°C. Ignition sources, solvents and prolonged sunlight. |
| 10.5 Incompatible materials | None |
| 10.6 Hazardous decomposition products | Decomposition of foam above 100°C produces fumes from molten material and smoke may produce toxic gases such as carbon monoxide, carbon dioxide and hydrogen bromide. The duration of release is dependent upon the thickness of the foam, and the temperature applied. |

11. TOXICOLOGICAL INFORMATION

| | |
|--|---|
| 11.1 Information on toxicological effects | |
| Acute effect | Expanded polystyrene is non-toxic and not irritating to the skin or eyes. Dust can be irritating to eyes – please refer to 7.1/ |

12. ECOLOGICAL INFORMATION

| | |
|--|--|
| 12.1 Toxicity | Not expected to be toxic to aquatic organisms in its solid state. |
| 12.2 Persistence and degradability | The product will surface degrade with prolonged exposure to sunlight. No significant biodegradation is expected. |
| 12.3 Bioaccumulative potential | The product is not expected to bioaccumulate. |
| 12.4 Mobility in soil | The product is inert. |
| 12.5 Results of PBT and vPvB assessment | No data available. |
| 12.6 Other adverse effects | No data available. |

13. DISPOSABLE CONSIDERATIONS

| | |
|-------------------------------------|---|
| 13.1 Waste treatment methods | |
| Waste from residues | Disposal in accordance with regulations and |



Airpacks Ltd, KORE Insulation, Kilnaleck, Co. Cavan, A82 T291, Ireland.
T +353 49 4336998 F+353 49 4336823 E info@kore-icf.com W kore-system.com

| | |
|-------------------------------|---|
| Dirty packaging | procedures in force in country of use or disposal. Disposal of in accordance with regulations and procedures in force in country of use or disposal. |
| European waste catalogue code | 07.02.13, non hazardous |

14. TRANSPORT INFORMATION

| | |
|---|--------------------------------|
| 14.1 UN Number | - Not classified for transport |
| 14.2 UN proper shipping name | - Not classified for transport |
| 14.3 Transport hazard class(es) | - Not classified for transport |
| 14.4 Packing group | - Not classified for transport |
| 14.5 Environmental hazards | - Not classified for transport |
| 14.6 Special precautions for user | - Not classified for transport |
| 14.7 Transport in bulk according to Annex II for MARPOL73/78 and the IBC Code | - Not classified for transport |

15. REGULATORY INFORMATION

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

The European Regulation on Chemicals No 1907/2006, Registration, Evaluation, Authorisation of Chemicals (REACH) enacted on June 1 2007 requires the provision of Safety Data Sheet for hazardous substances and mixtures/preparations.

Airpacks Ltd t/a KORE System expanded polystyrene products (block, panel, moulding, bead), are defined as article under REAVH and therefore a Safety Data Sheet for these products is not a legal requirements.

This material safety data sheet is in accordance with the EU directives 67/548/EEC. 1999/45/EEC, 1907/2006, 1272/2008 AND 453/2010.

15.2 Chemical Safety assessment: not relevant

16. OTHER INFORMATION

If using adhesives with this product follow the adhesive manufactures instructions carefully.

This safety data sheet does not constitute a workplace assessment. Information contained in this document represents the state of our knowledge regarding this product as of the date of issue of the document. Attention of users is drawn to possible risks taken when the product is used for other applications than the ones it has been designated for.