

1. IDENTIFICATION OF THE SUBSTRATE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name/designation: Alumasc Extruded Polystyrene Plus Insulation.

1.2 Relevant identified uses

Relevant identified uses: Thermal insulation for inverted roof construction.

1.3 Manufacturer/Supplier

Supplier:

Alumasc Building Products Ltd

White House Works, Bold Road, Sutton, St Helens, Merseyside, United Kingdom, WA9 4JG

Tel: +44 (0)1744 648400

e-mail: technical@alumascroofing.com

1.4 Manufacturer/Supplier

Emergency telephone: +44(0) 1744 648400 (Mon-Thurs – 08.30-17.00 Fri – 08.30-16.00)

2. HAZARDS IDENTIFIER

This product is not classified as dangerous according to EC criteria.

The product is an article as defined by UK REACH.

Label elements: No labelling required under CLP for this article.

Other hazards: Cutting, sanding, or machining may generate dust and fine particulates that can form combustible dust-air mixtures. Product can melt and drip when burning. Thermal decomposition and fires may produce hazardous gases (e.g., carbon monoxide, carbon dioxide, hydrogen bromide, styrene and other aromatic hydrocarbons, soot). Large sheets may present a static charge hazard when handled.

Contains synthetic polymer microparticles embedded in a solid matrix which are not intended to be released under normal or reasonably foreseeable conditions of use. May release particles if mechanically processed (e.g., cutting, sanding).

PBT/vPvB assessment: Based on available information, the article does not contain substances assessed as PBT/vPvB above 0.1% w/w.

SVHC status should be verified against the current ECHA Candidate List at the time of supply.

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

Product type: Article (extruded polystyrene foam board).

Constituent (typical ranges):

- Polystyrene polymer (CAS 9003-53-6): 85-98% w/w

Note: The product contains synthetic polymer microparticles subject to REACH Annex XVII restrictions (Article 78). These are embedded in a matrix and not intended for release.

This product is HBCD-free.

4. FIRST AID MEASURES

4.1 Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists. Protect unharmed eye.

4.2 Skin Contact

Wash with soap and water after handling. Molten material can cause thermal burns-cool rapidly with water. Do not attempt to remove solidified material from the skin. Seek medical attention for burns.

4.3 Inhalation

Exposure to dusts from cutting may cause mechanical irritation to the nose and throat. Move to fresh air. Rinse mouth and blow nose. Seek medical advice if symptoms persist.

Exposure to smoke from thermal decomposition: remove from exposure and get medical attention immediately.

4.4 Ingestion

If swallowed, rinse mouth and drink water. Do not induce vomiting. Seek medical advice if discomfort occurs.

Most important symptoms and effects, both acute and delayed

Mechanical irritation to eyes/airways from dust. Symptoms of smoke inhalation may include headache, dizziness, nausea, coughing, and respiratory distress.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. In case of smoke inhalation, monitor for delayed pulmonary oedema.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, dry chemical, or carbon dioxide. Use water spray to cool exposed surfaces and protect personnel.

Unsuitable extinguishing media

Do not use high-pressure water jets directly on burning material, may spread burning molten polymer.

5.2 Fire-fighting procedures

Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. If material is molten, do not apply direct water stream. Use fine water spray or foam. Cool surroundings with water to localise fire zone.

5.3 Special protective equipment for fire-fighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

5.4 Unusual fire and explosion hazards

Material will burn if ignited. Product may melt and drip. Hazardous combustion products may include carbon monoxide, carbon dioxide, hydrogen bromide (HBr), styrene and other aromatic hydrocarbons, aldehydes, and soot.

5.5 Hazardous combustion products

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. In smouldering or flaming condition, carbon monoxide, carbon dioxide and carbon are generated. Combustion products may include and are not limited to: Hydrogen bromide. Studies have shown that the products of combustion of this foam are not more acutely toxic than the products of combustion of common building materials such as wood.

6. ACCIDENTAL RELEASE MEASURES

6.1 Steps to be taken if material is released or spilled

Collect mechanically. For dust and fines, use industrial vacuum (preferably equipped with HEPA filter). Avoid dry sweeping that can create dust clouds.

6.2 Personal precautions

Avoid generating dust. Ensure adequate ventilation. Eliminate ignition sources in dusty atmospheres. Use antistatic tools and grounding where practicable

6.3 Environmental precautions

Prevent entry into drains, surface and ground waters. Large fragments should be collected to avoid littering and physical harm to wildlife

7. HANDLING AND STORAGE

7.1 Handling

General handling:

Handle in accordance with good industrial hygiene and safety practice. Cut or machine with adequate local exhaust ventilation to control dust and potential thermal degradation fumes. Avoid contact with open flames or hot surfaces. Take measures against static discharge. Do not smoke in handling areas.

7.2 Storage

Store in a cool, dry, well-ventilated area away from direct sunlight, heat, sparks, and open flames. Protect from UV exposure and weathering. Keep away from strong oxidizing agents and organic solvents. Store flat to prevent warping; avoid excessive stacking that could deform boards.

7.2 Specific end uses

Thermal insulation in construction; follow product Technical Data Sheet (TDS) and local building regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limits

Control parameters

No exposure limits are established for the article. During cutting or machining, observe national occupational exposure limits (OELs) for nuisance dust/particulates. Typical guidance values used in many jurisdictions: 10 mg/m³ (inhalable) and 4 mg/m³ (respirable) as 8-h TWA; always follow local regulations which may differ

8.2 Eye/face protection

Safety glasses with side shields; goggles if generating dust.

8.3 Skin protection/ Hand protection

Work gloves to prevent cuts/abrasions when handling boards. Long sleeves recommended.

8.4 Respiratory protection

Not required during normal handling. When dust cannot be controlled by engineering measures, use a particle-filtering respirator (e.g., EN 149 FFP2 or better). For thermal decomposition fumes, use suitable organic vapor/particulate combination filters.

8.5 Ingestion

No precautions necessary due to the physical properties of the material.

8.6 Engineering controls

Provide local exhaust ventilation during cutting, sanding, or hot-wire operations to capture dust and vapours. Use spark-proof, grounded equipment in areas where dust clouds may form.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Supplied in board form with no significant odour. Usually pale orange in colour but occasionally supplied in other colours.

9.2 Important health, safety and environment information:

Physical state:	Rigid, closed-cell foam boards.
Colour:	Grey
Odour:	Slight, faint styrenic odor possible when heated or freshly cut
Odor threshold:	Not determined
pH:	Not applicable (solid article)
Melting/softening point:	Softens above ~90-105 °C (glass transition of polystyrene); melts at higher temperatures
Boiling point/range:	Not applicable
Flash point:	Not applicable (solid article) Evaporation rate: Not applicable
Flammability:	Class E
Lower/upper flammability or explosive limits:	Not determined for article. Dust may form explosive mixtures in air
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Relative density (foam board):	typically 25-45 kg/m ³ (product-dependent)
Solubility(ies):	Insoluble in water
Partition coefficient n-octanol/water:	Not applicable for article
Auto-ignition temperature:	~450-500 °C (typical for polystyrene)
Decomposition temperature:	>300 °C (polystyrene)
Viscosity:	Not applicable
Explosive properties:	Not explosive as supplied; fine dust may present explosion hazard in air
Oxidizing properties:	Not oxidizing

10. STABILITY AND REACTIVITY

10.1 Stability/instability

Stable under recommended storage and handling conditions.

10.2 Conditions to avoid

Avoid temperatures above 300°C (572°F) Exposure to elevated temperatures can cause product to decompose. Avoid direct sunlight.

10.3 Incompatible materials

Strong oxidizing agents, halogenated solvents, aromatic solvents (can attack polystyrene).

10.4 Hazardous polymerization:

Dust-air mixtures may explode if ignited. Avoid contact with strong oxidizers.

10.5 Hazardous decomposition products

Under fire/thermal decomposition: CO, CO₂, hydrogen bromide (HBr), styrene, ethylbenzene, toluene, aldehydes, and soot.

11. TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity: Not expected to be acutely toxic as an article.

Skin corrosion/irritation: Not corrosive; dust may cause mechanical irritation. Molten material causes thermal burns.

Serious eye damage/irritation: Dust may cause mechanical irritation and redness.

Respiratory or skin sensitization: Not expected.

Germ cell mutagenicity / Carcinogenicity / Reproductive toxicity: No components present in the finished article at reportable levels are classified for these endpoints to the best of our knowledge.

STOT-single exposure: Dust may cause transient respiratory irritation. Smoke from thermal decomposition may cause respiratory effects.

STOT-repeated exposure: No known effects for the solid article under normal conditions of use.

Aspiration hazard: Not applicable (solid).

Information on other hazards: The article may accumulate static charge; handle accordingly.

12. ECOLOGICAL INFORMATION

Toxicity

No acute aquatic toxicity is expected for the solid article. Not classified as hazardous to the aquatic environment. Not expected to pose significant risk unless released through improper disposal or mechanical degradation.

Persistence and degradability

The polymer matrix are persistent high-molecular-weight polymers. Slow degradation under environmental conditions (photodegradation). Microplastics are persistent but encapsulated in a matrix.

Bioaccumulative potential

High molecular weight polymers-bioaccumulation unlikely. Additives are bound within the matrix.

Mobility in soil

Insoluble. Floats on water. May be transported by wind or water as litter if not properly managed.

Results of PBT and vPvB assessment

No PBT/vPvB substances intentionally present above 0.1% w/w to the best of our knowledge.

Endocrine disrupting properties

No substances identified as having endocrine disrupting properties intentionally present above 0.1% w/w to the best of our knowledge.

Other adverse effects

Physical hazards to wildlife may occur if fragments are released to the environment. Avoid uncontrolled release into the environment.

13. DISPOSAL CONSIDERATION

Disposal Considerations:	Product dust created in the installation process should be avoided or otherwise minimised to extent possible. Dispose of dust responsibly in line with the precautions set out in Sections 7 and 8. Disposal of this product and its packaging must comply with all applicable environmental protection and waste disposal legislation, including any requirements set by local authorities. Any unwanted or non-recyclable material should be disposed of through a licensed waste disposal contractor. Transportation of such waste may be subject to ADR (International Carriage of Dangerous Goods by Road) regulations and must be managed in accordance with those requirements.
Waste code:	17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03

14. TRANSPORT INFORMATION

UN number: Not applicable.

UN proper shipping name: Not applicable.

Transport hazard class(es): Not regulated as dangerous goods (ADR/RID, AON, IMDG, IATA).

Packing group: Not applicable.

Environmental hazards: Not applicable.

Special precautions for user: Protect from heat and ignition sources. Secure loads to prevent movement and mechanical damage.

Bulk transport according to Annex II of MARPOL and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

15.1 European Inventory of Existing Commercial Chemical Substances (EINECS)

- REACH (EC) No 1907/2006: This product is an article and not subject to registration. Communication obligations apply if SVHCs >0.1% w/ware present (Article 33).
- CLP (EC) No 1272/2008: Not classified; no labelling required for the article.
- POPs Regulation (EU) 2019/1021: HBCD is restricted; this product is HBCD-free.
- Waste Framework Directive and national packaging/construction waste regulations may apply to disposal and EPR obligations.
- Building regulations (e.g., reaction-to-fire classification per EN 13501-1) are product-specific and provided in the Declaration of Performance (DoP)-not covered by this SDS.
- Regulation (EU) 2024/573 of the European Parliament and of the Council of 7 February 2024 on fluorinated greenhouse gases, amending Directive (EU) 2019/1937 and repealing Regulation (EU) No 517/2014

This product contains synthetic polymer microparticles encapsulated in a matrix:

"The supplied synthetic polymer particles are subject to the requirements laid down in Article 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council."

15.2 EC Classification and User Label Information

This product is not classified as dangerous according to EC criteria.

Chemical safety assessment: Not required for articles.

16. OTHER INFORMATION

SDS version summary:

Version	Date of Update	Section Updated
1.0	01/07/2026	Template Change

16.1 Legend

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road;
CLP - Classification, Labelling and Packaging; ECHA - European Chemicals Agency; EWC - European Waste Catalogue
HBCD - hexabromocyclododecane; HBr - hydrogen bromide;
PBT - Persistent, Bioaccumulative and Toxic; POPs - Persistent Organic Pollutants; SVHC - Substances of Very High Concern;
TDS - Technical Data Sheet;
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; vPvB - very Persistent and very Bioaccumulative.

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