

High Density Polyethylene Foam

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

1.1. Product Name/Identifier

High density polyethylene foam

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

Foam is used for installation in roofing and cladding as eaves or ridge filler for sealing through compression against wind, dusts, insects and driving rain.

1.3. Details of the supplier of the safety data sheet

Premier Sealant Systems Ltd.
Mercia Way,
Foxhills Industrial Park,
Scunthorpe,
North Lincolnshire,
DN15 8RE
Tel. 01724 864 100

1.4. Emergency telephone number

NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only). For medical advice, members of the public should contact NHS 111 in England: 111; NHS 24 in Scotland: 111; NHS Direct in Wales: 111 or 0845 4647. In Northern Ireland: contact your local GP or pharmacist. In Europe call 112.

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to UK CLP/GHS
Non-Hazardous

2.2. Label elements

Not applicable.

2.3. Other hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Chemically Cross-linked Polyethylene/EVA Foam. An Article is defined as an “object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition” (REACH art. 3 No. 3).

Azodicarbonamide (ADCA), the foaming agent, is categorised within the REACH definitions, as a candidate SVHC. ADCA is a common foaming agent used in foam production. In the Palziv production process, the temperatures reached in the foaming ovens are higher than the decomposition temperature of ADCA and hence, it can be assumed that the foams contain less than 0.1 w% of ADCA trace contents. In the event that there are any ADCA traces, they are contained in the matrix and will not be released under standard circumstances.

Since currently there is no official analytical method for determination of ADCA contents in crosslinked polyethylene foams, the above can be considered valid unless an alternative method is officially defined by an official National Standards Authority or across Europe by ECHA or the EU authorities.

4. FIRST AID MEASURES

4.1. Description of first aid measures

General information

In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation:	Should not occur during normal use.
Ingestion:	Rinse mouth and consult doctor.
Skin contact:	No known hazards at room temperature. If any symptoms, wash with plenty of water and consult a doctor.
Eye contact:	Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

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

Due to concentration ingestion, skin contact, or inhalation of sufficient quantities to induce symptoms is unlikely.

Inhalation	No specific data.
Ingestion	No specific data.
Skin contact	No specific data.

Eye contact No specific data.

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

Notes for the doctor

None known.

Specific treatments

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards

None known.

Hazardous combustion products

Carbon dioxide, carbon monoxide, nitrogen monoxide, nitrogen dioxide.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment.

6.2. Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Can be cleaned by any acceptable method: Dust and fragments may be vacuumed, swept or blown away by use of air pressure".

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions

The handling must take place in a sufficiently ventilated facility or must be equipped with an aspiration system. Inhalation of vapours and dust must be avoided.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

There is no danger when stored / during storage.

Storage class

Not classified.

7.3. Specific end use(s)

Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Not applicable.

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

If dust is generated during processing recommend protective glasses with side protection are recommended.

Hand protection

Only in cases of exceptional skin allergies are soft cotton gloves are recommended.

Other skin and body protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

In case of dust formation, wearing an EN 149 FFP2 approved mask is recommended.

Environmental exposure controls

Not applicable.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	PE Foam
Colour	Off white
Odour	None
Odour threshold	No information available
pH	Not available
Melting point	Not available
Initial boiling point and range	Not available
Flash point	Not available
Evaporation rate	No information available
Evaporation factor	No information available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Bulk density	Not available
Solubility(ies)	Not soluble in water
Partition coefficient	Not available
Auto-ignition temperature	350°C
Decomposition Temperature	>300°C
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

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9.2. Other information

Not available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No specific test data available.

10.2. Chemical stability

The product is stable during normal storage and use conditions.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

Open flames.

10.4. Incompatible materials

None known.

10.5. Hazardous decomposition products

During slow or incomplete combustion some toxic gases may be emitted containing carbon dioxide, carbon monoxide, nitrogen monoxide, nitrogen dioxide.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Conclusion/Summary

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

Acute toxicity estimates

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

Irritation/Corrosion

Conclusion/Summary

Skin

Low order of toxicity.

Eyes

Slightly irritating due to solid form but composition not known to injure eye tissue.

Respiratory

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

Oral:

Minimal toxicity.

Sensitisation

Conclusion/Summary

Skin

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

Respiratory

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

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.

Teratogenicity

Conclusion/Summary

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

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

Aspiration hazard

Not available

Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

12. ECOLOGICAL INFORMATION

12.1. Persistence and degradability

No data available.

12.2. Bioaccumulative potential

No data available.

12.3. Mobility in soil

No data available.

12.4. Results of PBT and vPvB assessment

No information available.

12.5. Other adverse effects

The information given is based on data available for the material, the components of the material, and similar materials. Not expected to be harmful to aquatic organisms, not expected to demonstrate chronic toxicity to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

13.2. Disposal methods

The following advice only applies to the product as supplied. Combination with other materials may well indicate another route of disposal. Care should in any case be taken to ensure compliance with EC, national and local regulations. This product is suitable for disposal in an approved landfill or by controlled incineration.

13.3. Waste class

None known.

14. TRANSPORT INFORMATION

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not classified.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

15. REGULATORY INFORMATION

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

Annex XIV - List of substances subject to authorisation

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air

Not listed.

Industrial emissions (integrated pollution prevention and control) - Water

Not listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list Australia

Not determined.

Canada
Not determined
China
Not determined.
Eurasian Economic Union
Russian Federation inventory
Not determined.
Japan inventory (CSCL)
Not determined.
Japan inventory (ISHL)
Not determined
New Zealand
Not determined.
Philippines
Not determined.
Republic of Korea
Not determined.
Taiwan
Not determined.
Thailand
Not determined.
Turkey
Not determined.
United States
Not determined.
Viet Nam
Not determined.

15.2. Chemical safety assessment

Not applicable.

16. OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

BCF: Bioconcentration Factor.

CAS: Chemical Abstracts Service.

cATpE: Converted acute toxicity point estimate.

DNEL: Derived No Effect Level.

EC₅₀: 50% of maximal Effective Concentration.

GHS: Globally Harmonized System.

IATA: International Air Transport Association.

IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.
LC50: Lethal Concentration to 50 % of a test population.
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
LOEC: Lowest Observed Effect Concentration.
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
SVHC: Substances of Very High Concern.
vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Asp. Tox. = Aspiration hazard
Eye Dam. = Serious eye damage
Flam. Liq. = Flammable liquid
Repr. = Reproductive toxicity
Skin Irrit. = Skin irritation
Skin Sens. = Skin sensitisation
STOT RE = Specific target organ toxicity-repeated exposure
STOT SE = Specific target organ toxicity-single exposure

Key literature references and sources for data

Source: European Chemicals Agency, <http://echa.europa.eu/> SDS from supplier.

Revision comments

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25/03/2024

Revision

2

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17/03/2014

SDS status

Approved.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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