

MSDS Material Safety Data Sheet: Expanded Polyethylene (EPE)

1. Identification of Substance:

Product Name:

Expanded Polyethylene (EPE) Foam

MSDS Code: CHE11-MAE040170M

2. Composition / Data on components: Chemical Characterisation:

CAS Number	Description	Percentage
9002-88-4	Low Density PE	97%
471-34-1	Calcium Carbonate	0.6%
7727-37-9	Nitrogen	2%
123-94-4	Monoglyceride	0.4%

Properties	Description
Appearance	Typically milky white coloured manufactured sheet and roll stock
Melting / Decomposition Range	Softening at 80°C, Decomposition and Flash Point >270°C,

3. Hazards Identification:

Not Classified as Hazardous according to Safe Work Australia Criteria.

Not classified as a Dangerous Good by the criteria of the ADG Code.

EPE Sheets and rolls are chemically inert, contain no fibers, and are safe for all normal conditions of processing and handling for which they are designed.

Criteria	Description
UN Number	None
Hazchem Code	None
Packaging Group	None
Dangerous Class	None
Poisons Schedule	None

4. First Aid Measures:

After Inhalation: Considered unlikely in normal circumstances. Fumes produced during melt process may cause eye, skin and respiratory irritation. Secondary operations such as material transfer, grinding, sanding or sawing can produce combustible dust. If dust or fumes of combustion are inhaled, remove patient from contaminated area. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin Contact: No special treatment required. Eventually wash with water and soap and rinse thoroughly. Heated material can cause thermal burns resulting in pain, redness and blistering. In the event of burn accident, or irritation of skin seek Medical advice.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist consult doctor.

After swallowing: Considered unlikely in normal circumstances. Do not induce vomiting. Seek Medical treatment.

Advice to Doctor: Treat symptomatically.

5. Fire Fighting Measures:

Suitable extinguishing agents: CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Special hazards caused by the material, its products of combustion or flue gases, can be released by fire - carbon monoxide and carbon dioxide.

Protective equipment: Wear self-contained breathing apparatus. Wear full protective suit.

6. Accidental release measures person – related safety precautions:

Person – related safety precautions: Ensure adequate ventilation.

Measures for environmental protection: Do not allow material to be released to the environment without proper government permits.

Additional information: See section 7 for information on safe handling. See section 8 for information on personal protection equipment. See section 13 for information on disposal.

7. Handling and storage Information for safe handling:

When cutting, routing or grinding, cells are destroyed accelerating the release of any retained blowing agent. Ensure adequate ventilation to enable blowing agent to dissipate. There are no other special handling requirements for this product.

Information about protection against explosions and fires: Material should be kept away from excessive heat, strong acids, oxidising agents, and sources of ignition.

Auto ignition temperature: >300C. Do not smoke.

Requirements to be met by storerooms and containers: No special requirements.

Storage in one common storage facility: Store away from oxidizing agents. Store in dry cool conditions.

8. Exposure controls and personal protection:

Components with critical values that require monitoring at the workplace: Not required

Additional information: No data.

Personal Protective equipment: The usual precautionary measures for handling chemicals should be followed. Remove and wash exposed clothing regularly. Avoid contact with eyes and skin.

Breathing equipment: Use breathing protection with high concentrations.

Eye Protection: Safety glasses.

Body Protection: Protective work clothing.

9. Physical and Chemical Properties General Information Form:

General Information Form: Solid milky white colour.

Odour: A mild odour emanates in hot environments and when product is cut.

Chemical Properties Boiling Point: Not applicable.

Melting Point: Not applicable.

Vapour Pressure: Not applicable.

Solubility in Water: Not applicable.

Specific Gravity (H₂O=1): Not applicable.

pH: Not applicable.

Freezing Point: Not applicable.

Molecular Weight: 20-40kg/m³.

Density at 20°C: Not applicable.

10. Stability and reactivity Thermal decomposition / conditions to be avoided:

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications. Materials to avoid: Oxidizing agents.

Dangerous reactions: No dangerous reactions known.

Dangerous products of decomposition: Carbon monoxide and carbon dioxide.

11. Toxicological information Primary irritant effect:

Primary irritant effect:

On the skin: No inflammation.

On the eye: No irritation.

Sensitization: No sensitizing effects known.

12. Ecological information General notes:

General notes: Do not allow material to be released to the environment without proper government permits.

13. Disposal considerations Recommendations:

Recommendations: Send to plastics recycling or landfill. Must be treated under adherence to official regulations.

14. Transport Information:

Not a hazardous material for transportation. DOT regulations:

Hazard Class: None.

Land transport: ARD/RID class: None.

Maritime transport: IMDG class: None.

Air Transport: ICAO-TI and IATA-DGR: None.

Additional Information: Not dangerous according to the above specifications.

15. Regulations Product related hazard information:

Product related hazard information: Observe the general safety regulations applicable to the handling of chemicals. National Regulations: All components of this product are listed in the EU Environmental Protection Agency Toxic Substances Control Act Chemical substance inventory.

Limitation of use: Do not expose to strong acids.

16. Other Information:

The information above is believed to be accurate and represents the best information currently available to us. However, The Foam Company makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations. Therefore, your specific use of this product should be evaluated to determine if additional precautions are required. The data / information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.