

Polyethylene Foam Product

1. PRODUCT AND COMPANY IDENTIFICATION

Company Name THERMOTEC AUSTRALIA PTY LTD	Web Site: www.thermotec.com.au
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Use(s): Thermal and Acoustic insulation for various installations. Also used as a protecting material.

2. 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

UN No.	None	Dangerous class	None
Hazchem code	None	Poisons Schedule	None
Packaging group	None		

Manufacturing Codes Roll Bar, Roof Rack, Windscreen, Packing Foam

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Physical description/properties

Appearance:

Red, Blue, Orange, Purple, Black Grey or White LDPE material, Polyethylene homopolymer foam fire retardants, typically antimony trioxide. Product is a manufactured article. Retardant additives bound within polymer Matrix.

Properties

Melting/decomposition range: 90 Degrees Celsius (Softening) (Decomposition @ >300°C)

Vapour pressure NA

Per cent volatile nil when fully degassed

SG Density 50Kg/m³

Flash point over 150°C

Flammability limit; AS1530.2.1989 Self extinguishing upon removal of direct flame source. Flame Zero range meets the "four zero" criteria of AS/NZS 1530.3.

Auto ignition temperature: Avoid long term exposure over 340C.

MATERIAL SAFETY DATA SHEET



Ingredients:

Chemical entity:	CAS No.	Proportion
Polyethylene	9002-88-4	>95%

4. FIRST AID MEASURES

Swallowed	If swallowed do not induce vomiting, seek medical advice
Eye	If product comes in contact with eyes wash affected area with cold water, irritation continues seek Medical advice.
Skin	In the event of abrasion or irritation of skin seek medical advice.
Inhaled	If fumes or combustion inhaled, remove from contaminated area and seek medical advice.
Advice to Doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability	Material should be kept away from excessive heat sources. Foil faced products (e.g. 4zero) comply with AS1530.3.1989 four zero fire rating. Test report available on request. Test report on foams available on request.
Fire and Explosion	There is potential for fire or explosion. If is not fully degassed. Always check with manufacturers special instructions for fire and explosion hazards. Must be kept away from any source of ignition until fully degassed. Contains blowing agent (propane). Normal fire fighting procedures should be allowed for to avoid inhalation of smoke and gases.
Extinguishing	Dry chemical, water, carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Spillage/ Disposal	Dispose of as landfill as required by local or state regulation. Recycling is possible contact manufacturer for recycling options.
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MATERIAL SAFETY DATA SHEET

7. STORAGE AND HANDLING

Storage & transport

Although shipment in properly ventilated vehicles should prevent the accumulation of a flammable concentration of blowing agent (Propane) during transport, the following additional precautions should be taken when opening shipments of foam.

- (I) Extinguish any sources of ignition including smoking.
- (II) Allow air to circulate for at least 5 minutes after opening closed vehicles and containers. All Thermotec foam products must be stored in a well ventilated area. Smoking and all other ignition sources must not be allowed.

Handling When cutting, skiving, routing or grinding, cells are destroyed accelerating the release of any retained blowing agent. Therefore it is possible for explosive concentrations of blowing agent to accumulate in localized areas. It is vital that there be adequate ventilation to enable blowing agent to dissipate.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Stds	No exposure limit allocated.
Biological Limits	No Biological limit allocated
Engineering Controls	Must be stored in a well ventilated area. Refer to manufactures " Safety when using Thermotec Closed Cell Polyethylene Foam".
PPE	Not required any Personal Protective Equipment under normal conditions of use. Where an inhalation hazard exists, wear dust-proof goggles and a particulate respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Red, Blue, Orange, Purple, Black Grey or White LDPE material, Polyethylene homopolymer foam fire retardants, typically antimony trioxide. Product is a manufactured article. Retardant additives bound within polymer Matrix.

Solubility (water) Insoluble

Boiling point (°C) @ >300C

Melting point (°C) @>90 Degrees Celsius

Vapour pressure @ 25° (kpa) NA

Specific gravity NA

Flash point over 150C

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10. STABILITY AND REACTIVITY

Hazard of use/ storage	Stable under normal storage and required temperature
Material to Avoid	Incompatible with hydrofluoric acid (violently), oxidising agents (eg. Hypochlorites), acid and heat.
Hazardous Decomposition Products	May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	The material does not contain any ingredient which under any normal installation conditions should lead to health hazards such as skin irritations, mucous irritation or breathing difficult
Eye	Not normally a hazard due to physical form, mechanical injury possible from particulate matter.
Inhalation	Not normally a hazard due to non-volatile nature of product.
Skin	Overexposure is unlikely due in this form of product.
Ingestion	Not normally a hazard due to non-volatile nature of product
Toxicity Data	Polyethylene (9002-88-4)

12. ECOLOGICAL INFORMATION

Environment	Availability of Limited ecotoxicity data for this product while preparing this report. Appropriate measures are taken to prevent this product from entering the environment
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13. DISPOSAL CONSIDERATIONS

Legislation	Dispose of in accordance with relevant local legislation.
Waste disposal	Reuse where possible. No special precautions are required for this product

14. TRANSPORT INFORMATION

UN No None Allocated	Dangerous goods class None Allocated
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Subsidiary risk None Allocated	EPG card None Allocated
Shipping name None Allocated	Packing group None Allocated
Poisons schedule None Allocated	Hazchem code None Allocated

15. REGULATORY INFORMATION

AICS	All chemicals listed on the Australian Inventory of Chemical Substances (AICS).
Poison Schedule	A poison schedule number has not been allocated to this product using the criteria in the standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

16. OTHER INFORMATION

This information relates only to 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 best of our knowledge, accurate and reliable as of the date compiled. Since conditions of use are beyond our control, the data is not to be taken as warranty or representation for which Thermotec Australia Pty Ltd assumes legal responsibility. It is the user's responsibility to satisfy him/herself as to the sustainability and completeness of such information for his own particular use. Use of the data and information must be determined by the user to be in accordance with local laws and regulations.