

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Expanded Polyethylene Foam (EPE)
TRADE NAME: Polyethylene Backer Rod (PEF Rod)
CHEMICAL GROUP: Plastics

MANUFACTURER: Nulon Limited

DESCRIPTION: Expanded Polyethylene backer rod

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White or Grey, non cross linked, closed cell PE Foam
Odour: None once cured, butane off gassing post manufacture
Specific Gravity: N.E.
Melting Point: 110°C, (230°F)
Water Resistance: Insoluble
Bulk Density: 30-40 kg/m³
Thermal Resistance: 0.18 sq.K/W @ 23Deg 24% ambient humidity (R-Value)

COMPOSITION:

LDPE Low Density Polyethylene Granules (Classification #4)
Blowing Agent - Hydrocarbon Gas - Odorised Butane
Glycerol Monostearate
Tracel foaming agent (<1% v/w)

PHYSIOLOGICAL AND HEALTH HAZARDS

Eyes: Processing dust may cause irritation or corneal injury due to mechanical action. Fumes released during welding or heat processing foam at temperatures above 80Deg C may cause irritation.
Skin: May cause some irritation but extremely rare
Ingestion: May be harmful if swallowed
Inhalation: Fumes generated during welding or processing foam at temperatures above 80Deg C may cause irritation to upper respiratory tract and lungs during prolonged exposure.

FIRE HAZARD: None

EMERGENCY AND FIRST AID DATA

Eyes: Flush with plenty of water to remove dust
Skin: Wash with soap and water
Ingestion: Not a likely route of exposure but induce vomiting if large quantities are consumed
Inhalation: Remove to fresh air. If not breathing administer artificial respiration.

Seek medical advice/attention.

EXTINGUISHING DATA

Water, Carbon dioxide and/or dry chemical

Fire and Explosion Hazards: Trace amounts of residual blowing agent may be present in foam.

Special Fire Fighting Procedures: Firefighters should be equipped with positive pressure self-contained breathing apparatus in enclosed areas.

NFPA Hazard Code:	Health	0
	Flammability	1
	Reactivity	0
	Special Hazard	None

HANDLING AND STORAGE

Handle as general inert material.

Storage Temperature: Max 71°C (160°F)

Do not store in air tight containers as product may generate heat.

Do not store near sources of ignition or near heating equipment. Product burns readily when exposed to hot ignition.

During fabrication processes that cut large numbers of interior foam cells, there may be a release of localized amounts of residual blowing agent (odorised butane), provide adequate ventilation to prevent concentration of blowing agent.

TRANSPORT

DOT: Not regulated

IMO: Not regulated

IATA/ICAO: Not regulated

Large quantities of foam must be transported in ventilated vehicles. Exercise caution when opening vehicles due to presence of residual blowing agent in product. Avoid all sources of ignition, sparks, tobacco products, open flame torches etc. near the vehicle or foam.

STABILITY AND REACTIVITY

Stability: Inert, very stable

Polymerization: Absent

Avoid: Flames, temperatures above 70Deg C, prolonged exposure to direct sunlight and intense UV light.

Incompatibility: Long contact strong oxidants

Hazardous Decomposition Products: None

ECOLOGICAL INFORMATION

Inert to environment. Not expected to exhibit any significant biodegradation

DISPOSAL CONSIDERATIONS

Reuse, recycle (4), incinerate at high temperatures or dispose in approved landfill. Follow all regulatory requirements for disposal.