

MSDS Number: PE-NAT
 Issue Date: 12/04
 Revised Date: 3/09
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EMERGENCY NUMBERS:

Shelter Enterprises For emergency and general information 8:00am - 4:30pm (Eastern
 (518) 237-4100 Time), Monday - Friday

CHEMTREC For Chemical Emergency - spill, leak, fire, exposure or accident, 24
 (800) 424-9300 hours

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Shelter Seal®

Chemical Name: Polyethylene
 Trade Name: Polyethylene Foam
 Chemical Family: Plastics
 Chemical Formula: N.A.

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Hazardous Ingredient</u> | <u>CAS No.</u> | <u>Wt. %</u> | <u>OSHA-PEL</u> | <u>ACGIH-TLV</u> |
|-----------------------------|--------------------|--------------|-----------------|------------------|
| Polyethylene | 9002-88-4 | 85-100 | N.E. | N.E. |
| Hydrocarbon Gas | 75-28-5 or 74-98-6 | 0-5 | 800 ppm | 800 ppm |
| Glycerol Stearate | Mixture | 0-2 | N.E. | N.E. |
| Color Concentrate | Variety | 0-1 | N.E. | N.E. |

SECTION 3 - HAZARDOUS IDENTIFICATION

Appearance: Solid Plastic Foam. Aqua colored solid.

Odor: None

Eye: Dust may cause irritation or corneal injury due to mechanical action. Fumes released during hot operation may cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May be harmful if swallowed.

Inhalation: Fumes generated under heat may cause eye irritation and respiratory irritation. Dust may cause irritation to upper respiratory tract and lungs.

Note: Read the entire MSDS for a more thorough evaluation of the hazards.

SECTION 4 - FIRST AID MEASURES

Skin Contact: Wash with soap and water.

Eye Contact: Flush eyes with plenty of water to remove particulate.

SECTION 4 - FIRST AID MEASURES (CONTINUED)

Ingestion: Not a likely route of exposure. Induce vomiting if large quantities are swallowed.

Inhalation: Remove to fresh air. If not breathing administer artificial respiration. Oxygen may be given by qualified personnel. Get medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Polyethylene: N.A.
(Hydrocarbon Gas: -120 °F (-84 °C))*

Flammable limits (LEL): Polyethylene: N.A.
(Hydrocarbon Gas: 1.8% by volume)*

Flammable limits (UEL): Polyethylene: N.A.
(Hydrocarbon Gas: 8.5% by volume)*

*Only trace amounts of residual blowing agent (under 2 wt%) present in the foam

Extinguishing Media: Water, carbon dioxide (CO₂) and dry chemical.

Fire and Explosion Hazards: Trace amounts of residual blowing agent may be present in the foam. Mechanical and thermal processes may produce dust and flammable vapors which may be potential explosion hazards. Tightly sealed containers may burst under fire or intense heat.

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

| | | |
|--------------------------|-----------------|-------|
| <u>NFPA Hazard Code:</u> | Health: | 0 |
| | Flammability: | 1 |
| | Reactivity: | 0 |
| | Special Hazard: | None. |

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Handle as general inert material.

SECTION 7 - HANDLING AND STORAGE

Storage Temperature: Max. 160° F (71° C)

Precautions to be Taken in Handling, Storage and Transportation:

WARNING: This polyethylene foam is made with a flammable hydrocarbon blowing agent, most of which is removed prior to shipment. However, residual flammable vapors may gradually exhaust from the foam during storage, fabrication or use. Avoid close confinement of large foam quantities and sources of ignition near the foam (i.e. smoking, sparks, flames.) Do not store near heating equipment. Heating equipment should be inspected regularly during every heating season to check for pinholes or larger defects in the combustion chamber. Burns readily when exposed to plentiful and hot ignition sources. Use self-contained breathing apparatus in the event of fire.

SECTION 7 - HANDLING AND STORAGE (CONTINUED)

WARNING: Fabricating operations which cut large numbers of interior foam cells, can release localized amounts of flammable, residual blowing agent. Provide adequate ventilation to avoid the build up of blowing agent concentration.

WARNING: Transport large quantities of this polyethylene foam in ventilated vehicles. Exercise caution when opening vehicles containing this polyethylene foam to avoid all possible sources of ignition (lit tobacco products, sparks, etc.) near the foam and vehicle.

For additional information obtain the Sealed Air Corporation "Polyethylene Foam Safety Guide."

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: OSHA-PEL: Hydrocarbon Gas 800 ppm
ACGIH-TLV: Hydrocarbon Gas 800 ppm

Respiratory Protection: In dusty atmosphere and where fumes are generated above regulatory limits, wear appropriate respirator protection.

Eye Protection: Use goggles or safety glasses with side shields when exposed to foam dust or particles.

Ventilation: Use local exhaust ventilation if necessary to maintain hydrocarbon gas levels below the PEL and LEL. For guidance on engineering controls, refer to the ACGIH publication "Industrial Ventilation."

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form: Solid plastic foam

Boiling Point: N.A.

Color: Natural, Black, Light Green and other colors.

Vapor Pressure: N.A.

Vapor Density (Air = 1): N.A.

Bulk Density: 20 - 200 Kg/m³

Molecular Weight: N.E.

% Volatile by Volume: Nil

Melting Point: 230° F (110° C)

Solubility in Water: Not soluble.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Polymerization: Will not occur.

Conditions to Avoid: Avoid flame, very high temperature, and UV.

Incompatible Materials: Strong oxidants (long contact).

Hazardous Decomposition Products: None

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SECTION 11 - TOXICOLOGICAL INFORMATION

No applicable or available data for this section.

SECTION 12 - ECOLOGICAL INFORMATION

This product is inert to the environment and is not expected to exhibit any significant biodegradation.

SECTION 13 - DISPOSAL CONSIDERATIONS

Reuse, recycle, incinerate, or dispose in approved landfill. Follow all regulatory requirements for disposal.

SECTION 14 - TRANSPORT INFORMATION

DOT: Not regulated.

IMO: Not regulated.

IATA/ICAO Class: Not regulated.

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For additional information obtain the Sealed Air Corporation "Polyethylene Foam Safety Guide."

SECTION 15 - REGULATORY INFORMATION

SARA 302 Extremely Hazardous Substances: None

SARA 311/312 Hazard Categories: None

SARA 313 Listed Ingredients: None

RCRA Status: The product as supplied is not classified as a RCRA hazardous waste

SECTION 16 - OTHER INFORMATION

The following states have regulations that apply to the use of this product.

- NJ New Jersey Workplace Hazardous Substance
- NJ New Jersey Environmental Hazardous Substance List
- PA Pennsylvania Hazardous Substance List

The appropriate state agency should be contacted for further details on regulatory requirements.