



Material Safety Data Sheet

Section 1: Substance Identity and Company Information

Product Name: Northwest Foam Expanded Polystyrene Modified Grade
 Manufacturer: Northwest Foam Products, Inc.
 2390 Rostron Circle, Twin Falls, ID 83301
 800-398-0804 (8am-5pm MT)
 Chemical Name/Synonyms: Modified EPS, Modified Foam Polystyrene
 Chemical Family: Ethenylbenzene Homopolymer
 Chemical Formula: (C₈H₈)_n

Section 2: Chemical Composition

Ingredient	CAS No.	Approx. Weight Percentage
Benzene, Ethenyl-, Homopolymer	9003-53-6	>98%
Hexabromocyclododecane (Fire Retardant)	3194-55-6	<1%
Pentane	109-66-0	<1%

Section 3: Hazards Identification

Primary route(s) of entry into body: Inhalation and ingestion

Acute effects:

Eyes: Dust particles may cause mechanical irritation.
 Skin: Direct contact may cause slight skin irritation.
 Inhalation: May cause respiratory discomfort similar to inhalation of too much "inert" dust.
 Ingestion: Biologically inert.
 Chronic effects in humans: No known adverse effects.

Section 4: First Aid Measures

Eye contact: Hold eyelids open and flush immediately with gentle stream of water for at least 15 minutes.

Seek medical attention if irritation persists.

Skin contact: Wash exposed areas with mild soap and water.

Inhalation: Move person to fresh air. If breathing is difficult seek medical attention.

Ingestion: Not likely to cause serious injury if ingested.

Section 5: Fire Fighting Measures

Flash Pt. and Method Used: 675⁰F (ASTM D-1929 per bead manufacturers)

Special Fire fighting Instructions: Use self-contained breathing apparatus respirator and approved personal protective clothing.

Extinguishing Media: Water fog, carbon dioxide, foam and dry chemical.

Auto-Ignition Temperature: 880⁰F (ASTM D-1929 per bead manufacturers)

Unusual Fire and Explosion Hazards: Combustion causes dense, black smoke. Smoke consists of carbon monoxide, carbon dioxide and styrene. Other undetermined hydrocarbon fractions could be released in small quantities.

Section 6: Accidental Release Measures

Spill or leak procedures: Pickup or if material is in small pieces, sweep up and place in suitable container for disposal

Reportable Quantity: None

Disposal Method: Recycle, incinerate with waste heat recovery, or landfill in accordance with federal, state and local regulations.

Section 7: Handling and Storage

Storage: Although expanded polystyrene contains a fire retardant additive, it is considered combustible and adequate protection from sources of ignition should be taken.

Section 8: Exposure Controls and Personal Protection

Personal protective equipment:

Respiratory Protection: Use approved dust mask when sawing or sanding

Gloves: none required

Eye Protection: Use approved safety glasses/goggles when sawing or sanding.

Section 9: Physical and Chemical Properties

Appearance: Rigid blocks or boards Melting Point: Not Applicable (softening begins at 160⁰F)

Odor: Slight hydrocarbon odor. Volatiles by Volume: <2

Physical state: Solid Vapor Density (Air=1): Not Applicable

Color: White Evaporation Rate: None

Boiling Point: Not Applicable Solubility in water: Insoluble

pH: Not Applicable Specific gravity: <1

Section 10: Stability and Reactivity

Stability: The product is stable.

Conditions to Avoid: Fire and high temperatures.

Incompatibility: Hydrocarbons, esters, insecticides, amines and aldehydes.

Hazardous polymerization: None.

Hazardous decomposition: Carbon monoxide, acid gases, water, carbon dioxide, carbon.

[EPS Facts](#)

[EPS Process](#)

[EPS Specifications](#)

[ICC ES-Report](#)

[EPS MSDS](#)

[Flame Spread & Smoke Developed](#)

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Section 11: Toxicological Information

Ventilation: No special ventilation requirements

Personal protective equipment:

Respiratory Protection: Use approved dust mask when sawing or sanding

Gloves: none required

Eye Protection: Use approved safety glasses/goggles when sawing or sanding.

Section 12: Ecological Information

Biologically inert

Section 13: Disposal Considerations

Non hazardous waste. Dispose of material according to local, state, federal regulations.

Section 14: Transport Information

Not a "Hazardous Material"

Section 15: Regulations

TSCA Status: Listed

Hazard Ratings: Health: 0 Fire: 2 Reactivity: 0

Section 16: Other Information

Expanded Polystyrene materials sold for construction use have a fire retardant modifier but are considered combustible, as are all organic materials. They must not be stored or installed near open flame or any other source of ignition. In addition, when EPS insulation is installed in the interior of a structure it must be protected by a proper thermal barrier, and the installer must review applicable local, state and federal building codes to determine the correct thermal barrier for the particular application

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