



# INDEX

PACKAGING Inc.

Protection by design

## EPS MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

Product Name: Modified Expanded Polystyrene  
Chemical Synonyms: Modified EPS  
Chemical Family: Ethenylbenzene Homopolymer  
Chemical Formula: (C<sub>8</sub>H<sub>8</sub>)<sub>n</sub>

Manufacturer: Avilite Corporation  
55 South Commercial Street  
Manchester, NH 03101  
888-720-8001

### 2. Chemical Composition

Chemical Name	CAS No.	Approx. Weight Percentage
Benzene, Ethenyl-, Homopolymer	9003-53-6	>95%
Hexabromocyclododecane (Fire Retardant)	3194-55-6	<1%
Pentane	109-66-0	<2%

### 3. Hazards Identification

**Routes of entry:** Inhalation and ingestion

#### Potential Health Effects:

Acute Eye Contact: Dust particles may cause mechanical irritation.  
Acute Skin Contact: Direct contact may cause slight skin irritation.  
Acute Inhalation: May cause respiratory discomfort.  
Ingestion: Biologically inert.  
Chronic effects: No known adverse effects.

### 4. First Aid Measures:

Eyes: Flush eyes with water for at least 15 minutes. Seek medical attention if irritation develops.  
Skin: Wash with mild soap and water. If irritation develops seek medical attention.  
Inhalation: Move person to fresh air. If breathing is difficult seek medical attention.  
Ingestion: Biologically inert. Extremely unlikely route of entry.

### 5. Fire Fighting Measures:

Flash Pt. and Method Used: 675<sup>0</sup> F (ASTM D-1929)  
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: 880<sup>0</sup> F (ASTM D-1929)  
Unusual Fire and Explosion Hazards: Combustion emits dense, black smoke. Smoke consists of carbon monoxide, carbon dioxide and styrene.

### 6. Accidental Release Measures:

Spill procedures: Remove material 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.

**Flexible Foam Division**  
99 Blaine St, Manchester, NH 03102  
(603) 625-6223 Fax (603) 644-7157

**EPS Foam Division**  
55 So. Commercial St., Manchester, NH 03101  
(603) 641-9814 Fax (603) 626-4342



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### 7. Handling and Storage:

Storage Temperature: 170° F

General Storage: Store in a well ventilated area.

### 8. Exposure Control / Personal Protection:

#### Personal protective equipment:

Respiratory Protection: Use approved dust mask if dust is generated.

Gloves: None required or as needed to prevent irritation.

Eye Protection: Use approved safety glasses or goggles if dust is generated

### 9. Physical and Chemical Properties:

Appearance: Blocks or Sheets

Melting Point: Not Applicable. Begins to soften at 180° F

Odor: Slight hydrocarbon odor.

Volatiles by Volume: <2

Physical state: Solid

Vapor Density (Air=1): Not Applicable

Color: White

Solubility in water: Insoluble

Boiling Point: Not Applicable

Specific gravity: <1

pH: Not Applicable

### 10. Reactivity:

Stability: This material is stable.

Conditions to Avoid: Fire and high temperatures.

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

Hazardous polymerization: Will not occur.

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

### 11. Toxicological Information:

Acute Effects: Acute health effects are not likely if used as intended.

Chronic Effects: Chronic health effects are not likely if used as intended.

### 12. Ecological Information:

Biologically Inert

### 13. Waste Disposal Considerations:

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

### 14. Transportation Information:

US DOT: This material is not regulated as a hazardous material by the US Department of Transportation.

### 15. Regulatory Information:

TSCA Status: Listed on the TSCA inventory.

Hazard Ratings: Health: 1 Fire: 2 Reactivity: 0

### 16. Other Information:

The information contained in this MSDS was prepared from sources we believe to be reliable but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

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