

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Modified Expanded Polystyrene
Chemical Synonyms: Modified EPS
Chemical Family: Ethenylbenzene Homopolymer
Chemical Formula: $(C_8H_8)_n$

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^o 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^o 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.

7. Handling and Storage:

Storage Temperature: 170^o 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
Odor: Slight hydrocarbon odor.
Physical state: Solid
Color: White
Boiling Point: Not Applicable
pH: Not Applicable

Melting Point: Not Applicable. Begins to soften at 180° F
Volatiles by Volume: <2
Vapor Density (Air=1): Not Applicable
Solubility in water: Insoluble
Specific gravity: <1

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:

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