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: \((\text{C}_8\text{H}_8)_n\)
Manufacturer: Avilite Corporation
55 South Commercial Street
Manchester, NH 03101
888-720-8001

2. Chemical Composition
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Approx. Weight Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, Ethenyl-, Homopolymer</td>
<td>9003-53-6</td>
<td>&gt;95%</td>
</tr>
<tr>
<td>Hexabromocyclododecane (Fire Retardant)</td>
<td>3194-55-6</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>&lt;2%</td>
</tr>
</tbody>
</table>

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°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°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°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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