## Description
- **Product Name**: Hexabromocyclododecane (HBCD)
- **Equivalent Name**: Albermarle Saytex HP-900; Chemtura CD-75, SP-75; Dead Sea FR-1206
- **Cas No.**: 3194-55-6
- **Molecular Weight**: 641.7

## Application
It is particularly suited for providing flame retardant to expanded polystyrene (EPS) foam, extruded polystyrene foam (XPS) and textile back coatings that are used extensively in the building and construction industry. HBCD additives exhibit high efficiency at low use levels while making building insulation and textiles flame resistant.

## Benefits and Features
It contains a high amount of alicyclic bromine. Its cyclo aliphatic nature results in a low melting point and high solubility in common solvents. It is possible to achieve transparent flame retardant formulations with HBCD flame retardant. It can be used without the addition of Sb2O3 material. Its high bromine content allows reduced loadings and its low melting point provides melt processability, resulting in minimal effect on the mechanical properties of formulated systems.

## Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>White powder.</td>
</tr>
<tr>
<td><strong>Purity %</strong></td>
<td>99 min.</td>
</tr>
<tr>
<td><strong>Bromine %</strong></td>
<td>74 min.</td>
</tr>
<tr>
<td><strong>Melt point °C</strong></td>
<td>180 min.</td>
</tr>
<tr>
<td><strong>Volatile %</strong></td>
<td>0.3 max.</td>
</tr>
<tr>
<td><strong>TGA</strong></td>
<td></td>
</tr>
<tr>
<td>1% weight loss</td>
<td>215°C</td>
</tr>
<tr>
<td>5% weight loss</td>
<td>244°C</td>
</tr>
<tr>
<td>10% weight loss</td>
<td>255°C</td>
</tr>
<tr>
<td>50% weight loss</td>
<td>269°C</td>
</tr>
<tr>
<td>90% weight loss</td>
<td>274°C</td>
</tr>
</tbody>
</table>

These properties are typical but do not constitute a specification either in part or as a whole.

## Shipping Information
- **Transportation classification**: No regulated for transportation.
- **Packing**: 25kg/bag; 1mt/pallet; 20mt/20'FCL

## More Information
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Hexabromocyclododecane (HBCD)

G’sal®FR