1. IDENTIFICATION

Chemical name: High impact polystyrene
Common names: High impact polystyrene, HIPS.
Chemical formula: \((C_{12}H_{16})_n\).

2. Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIPS</td>
<td>&gt;95%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Typical Antioxidant</td>
<td>&lt;3%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Typical Pigment</td>
<td>&lt;2%</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

3. Physical Properties

Density: 1.055 g/cc
Melt temperature: 210~260°C

4. Hazardous Reactivity

Instability: None.
Incompatibility: Stable.
Decomposition: Slow reaction in the presence of water.
Polymerization: Will not occur, already a polymer.
Combustion: Carbon monoxide and/or carbon dioxide may form during the combustion of this product.

5. Explosion Hazard and Fire Data

Unusual Explosion Hazard and Fire: The material will burn if exposed to sufficient heat and an ignition source. Avoid dispersion of dust in the air to reduce dust explosion hazard potential.
Extinguished Media: Water, Carbon dioxide, Dry chemical power, Foam.
Special Extinguishing Procedures: Firefighters must wear self-contained breathing apparatus and fully protective equipment.

6. Health Hazard Data

Health Hazards: May cause mild skin and eye irritation if reacted with water.
Medical Conditions Aggravated by exposure: None expected based on available information.
### 7. Precautions for Safe Handling and Use

Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Wash thoroughly after handling. Hot and/or melted polymer can severely burn the skin. Handle with care.

### 8. Emergency and First Aid

Skin Contact: Solid or dust may cause irritation or corneal injury due to mechanical action.

Eyes Contact: Essentially nonirritating to skin, Mechanical injury only.

Inhalation: Irritation. Consult a physician.


### 9. Special Protection Information

General Control Measures and procedures: None for normal use.

Personal Protective Equipment: Rubber gloves, safely lasses, Respirator.

### 10. Disposal Information

Spillage of Release: Collect for disposal. Use appropriate personal protective equipment during clean-up.

Waste disposal: Bury in a landfill in compliance with all federal, state and local regulations.

Material is non-hazardous and biodegradable.

### 11. Recommended Storage Conditions

Precautions should be taken in handing and storage: Avoid contacting with atmospheric moisture.

Store materials at <60°C with a desiccant in original containers to maintain product quality. Keep the container closed until it is ready for use. Purge container with high-purity dry nitrogen after opening, before resealing or repackaging.

### 12. TRANSPORT INFORMATION

Shipping Containers: Samples bottles; Moisture proof laminated pouches.

Proper Shipping name: Not regulated as a hazardous by DOT OR IMO.

**The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made.**

Consult the Company for Further Information.

**NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS:** The company does not recommend any of its products, including samples, for use: (A) in any application which is intended for any internal contact with human body fluids or body tissues (B) as a critical component in any medical device that supports or sustains human life; and (C) specifically pregnant women or in any applications designed specifically to promote or interfere with human reproduction.