SAFETY DATA SHEET
In Accordance with 3rd revised edition of GHS

Section 1 – Identification

Product Name: 149PC
Product Type: Injection - High Flow
Chemical Name: Acrylonitrile Styrene
Product Use: Household products, electrical appliances, Ball pens and stationary goods
Manufacturer: Thai ABS Company Limited (Subsidiary of IRPC Group)
299 Moo 5 Sukhumvit Road, Amphur Muang Rayong THAILAND
Emergency Call: +66(0)38 802560
Website: www.irpc.co.th, www.irpcmarket.com

Section 2 – Hazards Identification

Regulation (EC) No 1272/2008: This product is not classified as dangerous according to Regulation (EC) No 1272/2008.
GHS: Not classified as dangerous
Label elements: Not applicable
Other hazards: Not applicable

Section 3 – Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>EC Number</th>
<th>Percent weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylonitrile Styrene Copolymer</td>
<td>9003-54-7</td>
<td>Polymer</td>
<td>&gt; 99</td>
</tr>
<tr>
<td>Styrene</td>
<td>100-42-5</td>
<td>202-851-5</td>
<td>&lt; 0.5</td>
</tr>
</tbody>
</table>

Product contains high molecular weight polymers, and is not expected to be chemically active under normal conditions of handling and processing.

Section 4 – First-aid Measures

General information: Clothing and shoes must be immediately removed, decontaminated
Skin Exposure: In case of skin contact with hot polymer immediately immerse in or flush with clean, cold water. If irritation develops, seek medical attention.
Eyes Exposure: Flush with water for at least 20 minutes. Seek medical attention if irritation persists.
Inhalation: Remove person to fresh air. Assist in breathing if necessary. Seek medical attention.
Ingestion: Seek medical attention if a significant amount is swallowed

Section 5 – Fire-fighting Measures

Suitable extinguishing agents: Dry chemicals, foam, water, carbon dioxide and halon. Do not use water jets for large fires.
Hazards during fire-fighting: Carbon monoxide, carbon dioxide, hydrogen cyanide.

Protective equipment: Wear self-contained respiratory protective device.

Section 6 – Accidental Release Measures

Personal precautions: Avoid inhalation.

Environmental precautions: Discharge into the environment must be avoided.

Cleanup:
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Sweep/shovel up or spray with water and collect in a suitable container. Allow molten material to solidify before disposal. Avoid production of dust.

Section 7 – Handling and Storage

Handling: Do not handle material without proper protective equipment. Provide adequate ventilation. Maintain good housekeeping in work areas.

Storage conditions: Store in a cool, dry place in the original container when possible. Store below 50 °C. Keep away from moisture, excessive heat and sources of ignition. Do not place in direct sunlight.

Section 8 – Exposure Controls / Personal Protection

Exposure limits

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Reference</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
</tr>
<tr>
<td>Styrene</td>
<td>OSHA PEL*</td>
<td>100</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV</td>
<td>20</td>
<td>-</td>
</tr>
</tbody>
</table>

*OSHA PEL: Acceptable ceiling concentration (ACC) 200 ppm, maximum concentration above ACC 600 ppm

Exposure control: Ventilation, enclosures, or other controls may be needed to keep airborne contaminants below exposure limits.

Personal protective equipment

Respiratory protection: Wear respiratory protection if ventilation is inadequate. Breathing protection device if dust is formed.

Eye protection: Chemical workers goggles recommended.

Protective clothing: Gloves required when handling hot material. In case of fire, wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Ventilation: Provide adequate ventilation when processing material at elevated temperatures.

Section 9 – Physical and Chemical Properties

Appearance: Bluish color and Clarity Pellet

Odor: Odorless

Boiling Point: Not available

Flash Point: Not available

Melting Point: Not available
Vapor Pressure: Not applicable
Auto-ignition temperature: Not available
Solubility in water: Insoluble in water, Soluble in polar solvents
Specific Gravity: 1.06-1.09 (water = 1)
P:H: Not available
Partition coefficient: n-octanol: Not available

**Section 10 – Stability and Reactivity**

Stability: Stable
Condition to Avoid: Avoid temperatures above 300 °C.
Material to Avoid: Avoid solvents and oxidizing agents.
Dangerous decomposition: Carbon monoxide, carbon dioxide, styrene, acrylonitrile, hydrocarbon, cyanide.

**Section 11 – Toxicological Information**

Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Route</th>
<th>Species</th>
<th>Acute Toxic Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene</td>
<td>Oral</td>
<td>Rat</td>
<td>LD₅₀ 5000 mg/kg</td>
</tr>
</tbody>
</table>

Irritating/corrosive effects

Eye irritation: Prolonged contact can cause eye irritation
Skin irritation: Prolonged contact can cause skin irritation
Respiratory irritation: May cause allergic respiratory response
Ingestion irritation: Swallowing larger amounts may cause injury

**Section 12 – Ecological Information**

Toxicity: No relevant studies identified.
Persistence and degradability: The product is not easily biodegradable.
Bio-accumulative potential: Insoluble in water. Not expected to be bio-accumulative.
Mobility in soil: No relevant studies identified.
Other adverse effects: Not expected to pose a significant ecological hazard.

**Section 13 – Disposal Considerations**

Disposal methods:
Transfer to an approved disposal area in accordance with national, state and local regulations. Recycling uncontaminated packaging recommended. Package must be recycled in compliance with national legislation and environmental regulations.
## Section 14 – Transport Information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Class</th>
<th>Packing group</th>
<th>Label</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ADR / RID</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>IMDG CODE</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ICAO / IATA</td>
<td>-</td>
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</tbody>
</table>

## Section 15 – Regulatory Information

**US Toxic Substances Control Act**
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 29 CFR 1910.1200.

**HMIS -USA**
Health – 0, Flammability – 1, Reactivity – 0

**National Fire Protection Association - USA**
Health – 0, Flammability – 1, Reactivity – 0

**European Inventory of Existing Commercial Chemical Substances (EINECS)**
The components of this product are on the EINECS inventory or are exempt from inventory requirements.

**Canada – WHMIS**
Material is not controlled under WHMIS.

## Section 16 – Other Information

- **DOT**: Department of Transportation
- **ADR**: European agreement concerning the international carriage of dangerous goods by road.
- **RID**: Regulations concerning the international carriage of dangerous goods by rail.
- **IMDG – CODE**: International maritime dangerous goods code
- **ICAO**: International Civil Aviation Organization
- **IATA**: International air transport association
- **GHS**: Globally Harmonized System of Classification and Labeling of Chemicals
- **OSHA**: Occupational Safety and Health Administration
- **ACGIH**: American Conference of Governmental Industrial Hygienists
- **HMIS**: Hazardous Materials Identification System
- **WHMIS**: Workplace Hazardous Materials Information System

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*The information above is believed to be accurate and represents the best of our knowledge, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.*