SAFETY DATA SHEET

In accordance with the 3rd revision GHS

Revision Date: 7 May 2018

Section 1 – Identification

Product Name: 308PC
Product Type: High chemical resistance
Product Use: Can be used to produce injection and extrusion molded articles for commercial or industrial products. It is recommended for applications where a resistance of chemicals are important such as lighter, cosmetic packaging, sanitary ware.
Manufacturer: IRPC Public Company Limited
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

Classification according to Regulation (EC) No. 1272/2008 (CLP) and GHS Classification:

This product is not classified as dangerous according to Regulation (EC) No 1272/2008 and GHS.

Pictogram: Not Applicable
Signal Word: Not applicable
Hazard Statement:

- 

Precautionary Statement:

- 

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>-</td>
<td>99.0-99.8</td>
</tr>
<tr>
<td>Styrene</td>
<td>100-42-5</td>
<td>202-851-5</td>
<td>&lt;0.2</td>
</tr>
</tbody>
</table>
Section 4 – First-aid Measures

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 without delay; if pain persists or recurs seek medical attention.

Inhalation: Remove person to fresh air. If breathing is difficult, give oxygen.

Ingestion: Seek medical attention if a significant amount is swallowed.

Section 5 – Fire-fighting Measures

Suitable extinguishing agents: Dry chemical, foam, water fog or carbon dioxide. Do not use water jets for large fires.

Hazards during fire-fighting: Carbon monoxide, carbon dioxide.

Protective equipment: Wear self-contained respiratory protective device.

Section 6 – Accidental Release Measures

Personal precautions: If molten material, avoid breathing vapors.

Environmental precautions: Discharge into the environment must be avoided.

Cleanup:
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 cool location and ventilated place. Store below 50 °C. Keep away from moisture, excessive heat and sources of ignition. Do not place in direct sunlight.
Section 9 – Physical and Chemical Properties

**Appearance**
- Transparent pellet

**Odour**
- Odorless

**Boiling Point**
- Not Applicable

**Flash Point**
- Not Applicable

**Melting Point**
- -

**Vapour Pressure**
- Not Applicable

**Auto ignition temperature**
- Not Applicable

**Solubility**
- Insoluble in water

**Viscosity**
- Not Applicable

**Upper/Lower flammability or explosive limit**
- Not Applicable

**pH**
- Not Applicable

**Relative density**
- Not Applicable

**Specific Gravity**
- 1.06-1.09 (Water = 1)

**Partition coefficient: n-octanol/water**
- Not Applicable

**Decomposition temperature**
- Not Applicable

**Explosive properties**
- Not Applicable

**Softening Point**
- 100-105

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**Section 8 – Exposure Controls / Personal Protection**

**Exposure limits**

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Reference</th>
<th>TWA ppm</th>
<th>TWA mg/m3</th>
<th>STEL ppm</th>
<th>STEL mg/m3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene</td>
<td>ACGIH TLV</td>
<td>20</td>
<td>-</td>
<td>40</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL</td>
<td>100</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Personal protective equipment**

**Respiratory protection**
- No special respiration protection is normally required.

**Eye protection**
- Wear safety glasses with side shields, goggles or face shield.

**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.

**Other protective equipment**
- Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Engineering Controls**
- For molten materials: Provide mechanical ventilation; in general such ventilation should be provided at compounding/converting areas and at fabricating/filling work stations where the material is heated.
Section 10 – Stability and Reactivity

Stability
This material is considered a stable thermoplastic, with no chemical reactivity under normal ambient and anticipated handling conditions of temperature and pressure.

Condition to Avoid
DO NOT heat without adequate ventilation.

Material to Avoid
May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. 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 5,000 mg/kg</td>
</tr>
</tbody>
</table>

Irritating/corrosive effects
Eye Irritation
Solid particles may cause transient irritation from mechanical abrasion.

Skin Irritation
Molten material may cause thermal burns.

Inhalation
Process fumes may cause irritation.

Ingestion
May cause a choking hazard if swallowed.

Section 12 – Ecological Information

Eco-toxicity
No relevant studies found.

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:
This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. Dispose of by: burial in a land-fill specifically licensed to accept chemical and/or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
Section 14 – Transport Information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Classes</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>
<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Section 15 – Regulatory Information

**US Toxic Substances Control Act**

All components of this product are on the TSCA Inventory.

**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.

**NFPA – USA**

Health : 0  Flammability : 1  Reactivity : 0

**HMIS**

Health : 0  Flammability : 1  Reactivity : 0
### Section 16 – Other Information

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>ADR</td>
<td>European agreement concerning the international carriage of dangerous goods by road.</td>
</tr>
<tr>
<td>RID</td>
<td>Regulations concerning the international carriage of dangerous goods by rail.</td>
</tr>
<tr>
<td>IMDG-CODE</td>
<td>International maritime dangerous goods code</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>IATA</td>
<td>International air transport association</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System of Classification and Labeling of Chemicals</td>
</tr>
<tr>
<td>CLP</td>
<td>Classification and Labeling of Packaging</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>ACGIH</td>
<td>American Conference of Industrial Hygienists</td>
</tr>
<tr>
<td>HMIS</td>
<td>Hazardous Materials Identification System</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Association</td>
</tr>
<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
</tr>
</tbody>
</table>

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