

# SAFETY DATA SHEET

In According with 3rd revision GHS SDS

## Section 1 – Identification

<b>Product Name</b>	: AP102 , GA300 , GA400 , GA800 , GA850 , MH-1 , SP100 , SP200
<b>Product Type</b>	: General Purpose
<b>Product Description</b>	: ABS, ABS Resin
<b>Chemical Name</b>	: Acrylonitrile Butadiene Styrene
<b>Chemical Formula</b>	: $(C_3 - H_3 - N)_n (C_4 - H_6)_n (C_8 - H_8)_n$
<b>Chemical Family</b>	: Thermoplastic Polymer
<b>Product Use</b>	: Can be used to produce extrusion molded articles for commercial or industrial products.
<b>Manufacturer</b>	: Thai ABS Company Limited (A Company of IRPC Group) 299 Moo 5 Sukhumvit Road Amphur Muang Rayong Thailand
<b>Emergency Call</b>	: +66(0) 38 802560
<b>Website</b>	: www.irpc.co.th, www.irpcmarket.com

## Section 2 – Hazards Identification

<b>Regulation (EC) No 1272/2008:</b>	This product is not classified as dangerous according to Regulation (EC) No. 1272/2008.
<b>Directive 67/548/EEC :</b>	This product is not classified as dangerous according to EU Directive 67/548/EEC.
<b>Regulation (EC) No 1907/2006:</b>	This product is complied REACH Regulation (EC) No 1907/2006.
<b>GHS</b>	: Not classified
<b>Label elements</b>	: Not applicable
<b>Other hazards</b>	: Not applicable

## Section 3 – Composition / Information on Ingredients

Chemical Name	CAS Number	EC Number	Percent weight
Acrylonitrile Butadiene Styrene Copolymer	9003-56-9	Polymer	97-99
Styrene	100-42-5	202-851-5	< 0.5

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

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

Component Name	Reference	TWA		STEL	
		ppm	mg/m3	ppm	mg/m3
Styrene	OSHA PEL*	100	-	-	-
	ACGIH TLV	20	-	40	-

\*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 equipments

**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.

**Other protective equipments:** N.A.

## Section 9 – Physical and Chemical Properties

- Physical State** : Solid Form
- Odor and Appearance** : Plastic pellets in natural or compounded color with characteristic odor.
- Softening Point** : > 100 °C
- Specific Gravity (Water =1):** 1.04-1.07
- Percent Volatile (Vol %):** Nil
- Solubility in water** : Insoluble
- Solubility (Qualitative):** Soluble in polar solvents

## 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

Chemical name	Route	Species	Acute Toxic Value
Styrene	Oral	Rat	LD <sub>50</sub> 5000 mg/kg
	Inhalation	Rat	-

### Irritating/corrosive effects

- Eye Irritation** : Prolonged contact can causes 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.
- Bioaccumulative potential:** Insoluble in water. Not expected to be bioaccumulative.
- 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

Regulatory information	UN number	Classes	Packing group	Label	Additional information
ADR / RID Class	Not regulated	-	-	-	-
IMDG Class	Not regulated	-	-	-	-
ICAO / IATA Class	Not regulated	-	-	-	-

## 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.

### SARA 313

Material is not subject to SARA 313 reporting requirements.

### OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

### 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.

### EU Directives 67/548/EEC , 1999/45/EC and Regulation (EC) No 1272/2008

The product is not classified as dangerous for supply according to the Regulation (EC) No 1272/2008 and the EC directive 67/548/EEC and 1999/45/EC.

### Canada - WHMIS

Material is not controlled under WHMIS.

## Section 16 - Other Information

The information in this document is based on our best present. Nevertheless, it does not constitute a guarantee for any specific product features and does not establish any a legally binding contract.

Department issuing SDS : Petrochemical Scheduling and Inventory Division , IRPC Public Company Limited.

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

WHMIS : Workplace Hazardous Materials Information System

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