

# SAFETY DATA SHEET

In Accordance with 4<sup>th</sup> revised edition of GHS

Date of Revision 1 October 2014

## Section 1 – Identification

<b>Product Name</b>	: 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>	: IRPC Public Company Limited. 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

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

**Directive 67/548/EEC** : This product is not classified as dangerous according to EU Directive 67/548/EEC.

**Regulation (EC) No 1907/2006** : This product is complied REACH Regulation (EC) No 1907/2006.

**GHS** : Not classified

**Label elements** : Not applicable

**Other hazards** : 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.

**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**

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 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.

**Other protective equipment:** N.A.

## Section 9 – Physical and Chemical Properties

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

## Section 10 – Stability and Reactivity

<b>Stability</b>	: Stable
<b>Condition to Avoid</b>	: Avoid temperatures above 300°C.
<b>Material to Avoid</b>	: Avoid solvents and oxidizing agents .
<b>Dangerous decomposition:</b>	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

<b>Toxicity</b>	: No relevant studies identified.
<b>Persistence and degradability</b>	: The product is not easily biodegradable.
<b>Bio-accumulative potential</b>	: Insoluble in water. Not expected to be bio-accumulative.
<b>Mobility in soil</b>	: No relevant studies identified.
<b>Other adverse effects</b>	: 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	Class	Packing group	Label	Additional information
DOT	Not regulated	-	-	-	-
ADR / RID	Not regulated	-	-	-	-
IMDG CODE	Not regulated	-	-	-	-
ICAO / IATA	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.

### 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.

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
WHMIS	: Workplace Hazardous Materials Information System

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