

SAFETY DATA SHEET

Revision Date : 10 October 2019

Section 1 – Identification

Product Name : 121PC
Product Type : General Purpose SAN
Product Use : Can be used to produce injection or extrusion molded articles for commercial or Industrial products.
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 :

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Precautionary Statement :

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Section 3 – Composition / Information on Ingredients

Chemical Name	CAS Number	EC Number	Percent weight
Acrylonitrile Styrene Copolymer	9003-54-7	Polymer	97-99
Styrene	100-42-5	202-851-5	<0.5

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.Get medical attention if breathing difficulties continue.

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. Carbon monoxide, carbon dioxide, hydrogen cyanide.

Protective equipment : Wear self-contained respiratory protective device.

Section 6 – Accidental Release Measures

Personal precautions : Avoid inhalation and direct contact.

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 8 – Exposure Controls / Personal Protection

Exposure limits :

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

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 :

Engineering Controls :

Section 9 – Physical and Chemical Properties

Appearance	: Transparent or colored pellets
Odour	: Odorless
Boiling Point	: Not Applicable
Flash Point	: Not Applicable
Melting Point	: Not Applicable
Vapour Pressure	: Not Applicable
Auto ignition temperature	: Not Applicable
Solubility	: Soluble in polar solvent
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 °C

Section 10 – Stability and Reactivity

Stability	: Stable under normal ambient temperature.
Condition to Avoid	: Avoid excessive heat. 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	LD50 5000 mg/kg

Irritating/corrosive effects

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

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:

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
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.

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

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
DSL	: Domestic Substances List

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