

# SAFETY DATA SHEET

In Accordance with 3rd revised edition of GHS

## Section 1 - Identification of the Substance and Company

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 Ide	entification			
Regulation (EC) No 1272	<b>/2008</b> : 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**

Chemical name	CAS Number	EC Number	Composition
Acrylonitrile Styrene Copolymer	9003-54-7	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 Me	easures
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	: If molten material should splash into eyes, flush eyes immediately with fresh water for 15 minutes while holding the eyelid open. Remove contact lenses, if worn. Get immediate medical attention.
Inhalation	: Move the exposed person to fresh air. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.
Ingestion	: No first aid procedures are required. Seek medical attention if a significant amount is swallowed.
Section 5 – Fire-fighting	g Measures
Suitable extinguishing ag	ents : Dry chemicals, foam, water, carbon dioxide, and halon. DO NOT use water jets for large fires. Avoid using direct streams of water on molten burning material
Hazards during fire-fight	ing : Carbon monoxide, carbon dioxide, original monomer other hydrocarbon.



บริษัท ไออาร์พีซี จำกัด (มหาชน)

555/2 ศูนย์เอนเนอร์ยี่คอมเพล็กซ์ อาคาร บี ชั้น 6 ถนนอิกาวดีรับสิต แขวงจตุจักร เขตจตุจักร กรุงเทพ 10900 โทร. +66(0) 2765-7000, 66(0) 2765-7777 แพ็กซ์: +66(0) 2765-7002-5 IRPC Public Company Limited 555/2 Energy Complex Building B, 6<sup>th</sup> Floor, Vibhavadi Rangsit Road, Chatuchak, Bangkok 10900 THAILAND. TEL:+66(0) 2765-7000, 66(0) 2765-7777 FAX:+66(0) 2765-7002-5 www.irpc.co.th. www.irpcmarket.com



Protective equipment	: Wear self-contained respiratory protective device.
Section 6 - Accidental Relea	ise Measures
Personal precautions	: Avoid dust formation. Avoid breathing vapors, mist or gas.
<b>Environmental precautions</b>	: Discharge into the environment must be avoided.
Cleanup	: Collect spilled material using a method that minimizes dust generation (e.g. wet methods, HEPA vacuum). Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.
Section 7 – Handling and Sto	brage
Handling	: Exposure of polystyrene to extremely high temperatures (315 °C or higher) may cause partial decomposition. Chemicals that may be released include styrene monomer, benzene, and other hydrocarbons. Handling of pellets may form dust. Filter and ventilate dust where necessary
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
----------	--------

Common on the Name	Deferrere	TW	A	STEL	
Component Name	Reference	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Stanone	OSHA PEL*	100	-	-	-
Styrene	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

	· · · · · · · · · · · · · · · · · · ·
	contaminates below exposure limits.
Personal protective equipm	nent
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.
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. Local exhaust
	ventilation should be used over and in the vicinity of machinery involved in
	handling the molten material.



บริษัท ไออาร์พีซี จำกัด (มหาชน)

555/2 ศูนย์เอนเนอร์ยี่คอมเพล็กซ์ อาคาร บี เช้น 6 ถนนวิกาวดีรังสิต แขวงจตุจักร เขตจตุจักร กรุงเทพฯ 10900 โทร. +66(0)2765-7000,66(0)2765-7777 แฟ็กซ์: +66(0)2765-7002-5 IRPC Public Company Limited



## **Section 9 – Physical and Chemical Properties**

Physical State	: Transparent or colored pellets	
Odor and Appearance	: Odorless	
Boiling Point	: Not applicable	
Flash Point	: Not applicable	
Auto-ignition Temperature	: Not applicable	
Vapor Pressure	: Not applicable	
Softening Point	: 100-105 °C	
Specific Gravity	: 1.06-1.09 (Water =1)	
Solubility in water	: Insoluble	
Solubility (Qualitative)	: Soluble in polar solvents	
Partition coefficient: n-octana	l : Not applicable	
рН	: Not available	
Section 10 – Stability and Reactivity		
Stability	: Stable in ambient temperature.	
Condition to Avoid	: Avoid temperatures above 300°C.	

**Material to Avoid** : Avoid solvents and oxidizing agents.

Dangerous decomposition

: Carbon dioxide, carbon monoxide, hydrocarbons, dense smoke.

# Section 11 – Toxicological Information

#### Acute toxicity

Chemical name		Route	Species	Acute Toxic Value
Styrene		Oral	Rat	LD50 5000 mg/kg
Irritating/corrosive effectsEye Irritation: Prolonged contact can causes eye irritation.Skin Irritation: May cause skin irritation.Respiratory Irritation: May cause allergic respiratory response.Ingestion Irritation: Swallowing larger amounts may cause injury.Section 12 - Ecological Information				
Aquatic toxicity Persistence and degradabi Bio-accumulative potential Mobility in soil Other adverse effects	<ul><li>No relevant studies identified.</li><li>ility</li><li>The product is not easily biodegradable.</li></ul>			
Section 13 – Disposal Considerations				

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.

IRPC

บริษัท ไออาร์พีซี จำกัด (มหาชน)

555/2 ศูนย์เอนเนอร์ยี่คอมเพล็กซ์ อาคาร บี ชั้น 6 ถนนอิกาวดีรับสิต แขวงจตุจักร เขตจตุจักร กรุงเทพ ฯ 10900 โทร. +66(0) 2765-7000, 66(0) 2765-7777 แพ็กซ์: +66(0) 2765-7002-5 **IRPC Public Company Limited** 555/2 Energy Complex Building B, 6<sup>th</sup> Floor, Vibhavadi Rangsit Road, Chatuchak, Bangkok 10900 THAILAND. TEL:+66(0) 2765-7000, 66(0) 2765-7777 FAX:+66(0) 2765-7002-5 www.irpc.co.th. www.irpcmarket.com



# Section 14 – Transport Information

Regulatory information	UN number	Class	Packing group	Label	Proper Shipping Name
DOT	-	-	-	-	-
ADR/RID	-	-	-	-	-
IMDG CODE	-	-	-	-	-
ICAO/IATA	-	-	-	-	-

## Section 15 - Regulatory Information

#### **US Toxic Substances Control Act**

All components of this product are on the TSCA Inventory.

#### **HMIS-USA**

Health – 0, Flammability – 1, Reactivity – 0

#### NFPA- 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
CLP	: Classification and Labeling of Packaging
OSHA	: Occupational Safety and Health Administration
ACGIH	: American Conference of Governmental Industrial Hygienists
NFPA	: National Fire Protection Association
HMIS	: Hazardous Materials Identification System
WHMIS	: Workplace Hazardous Materials Information System

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



บริษัท ไออาร์พีซี จำกัด (มหาชน)

555/2 ศูนย์เอนเนอร์ยี่คอมเพล็กซ์ อาการ ปี เช้น 6 ถนนวิกาวดีรับสิต แขวงจตุจักร เขตจตุจักร กรุงเทพฯ 10900 โกร. +66(0)2765-7000,66(0)2765-7777 แพ็กซ์: +66(0)2765-7002-5 IRPC Public Company Limited

