

SAFETY DATA SHEET

In Accordance with 3rd revised edition of GHS

Section 1 – Identification	1		
Product Name	: GP130		
Product Type	: General Purpose		
Chemical Name	: Polystyrene		
Product Use	: Can be used to produce injection or extrusion molded articles for commercial or industrial products		
Manufacturer	: Thai ABS Company Limited (Subsidiary of IRPC Group) 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 Iden	itification		
Regulation (EC) No 1272/2	2008 : This product is not classified as dangerous according to Regulation (EC) No 1272/2008.		
Regulation (EC) No 1907/2	2006 : This product is compiled REACH Regulation (EC) No 1907/2006.		
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	Percent weight
Polystyrene		9003-53-6	500-008-9	≥98

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

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 if irritation persists.
Inhalation	: 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 age	ents : Dry chemicals, foam, water, carbon dioxide and halon. Do not use water jets for large fires.
Hazards during fire-fighting	ng : Carbon monoxide, carbon dioxide.

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Protective equipment	: Wear self-contained respiratory protective device.			
Section 6 – Accidental Release Measures				
Personal precautions	: Avoid dust formation and direct contact with molten material.			
Environmental precautions	: 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 S	torage			
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

Component Name	Reference	TV	VA	STEL	
component Name	Reference	ppm	mg/m3	ppm	mg/m3
Channen	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 equip	oment		
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.		

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Section 9 – Physical and Chemical Properties

Physical State	: Clear and Transparent Pellets		
Odor	: Characteristic odor		
Boiling Point	: Not applicable		
Flash Point	: Not applicable		
Auto-ignition Temperature	: Not applicable		
Vapor Pressure	: Not applicable		
Softening Point	: > 90 °C		
Specific Gravity	: 1.04 – 1.05 (water = 1)		
Solubility in water	: Insoluble in water, soluble in polar solvents		
Partition coefficient: n-octana	l : Not applicable		
рН	: Not available		
Section 10 – Stability and R	leactivity		
Stability	: Stable under recommended conditions of handling and storage.		
Condition to Avoid	: Avoid temperatures above 300°C.		

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: Avoid solvents and oxidizing agents.

Material to Avoid

Dangerous decomposition : Carbon monoxide, carbon dioxide, styrene, hydrocarbon, dense smoke.

Section 11 – Toxicological Information

Acute Toxicity

Chemical name		Route	Species	Acute Toxic Value
Styrene		Oral	Rat	LD ₅₀ 5000 mg/kg
Irritating/corrosive effect Eye Irritation Skin Irritation Respiratory Irritation Ingestion Irritation Section 12 – Ecological	ye Irritation: May causes eye irritation.kin Irritation: May be harmful if absorbed through skin. May cause skin irritation.espiratory Irritation: May cause allergic respiratory response.			
Eco-toxicity Persistence and degradab	ility : The product i			
Bio-accumulative potentia Mobility in soil Other adverse effects	 Not expected to be bio-accumulative due to its insolubility in water. No relevant studies identified. 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.

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Section 14 – Transport Information

Regulatory information	UN number	Class	Packing group	Label	Additional information
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 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.

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
ACGIH	: American Conference of Governmental Industrial Hygienists
OSHA	: Occupational Safety and Health Administration
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.

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