

# SAFETY DATA SHEET

Revision Date : 18 March 2021

## Section 1 – Identification

**Product Name** : HI830  
**Product Type** : High Impact Polystyrene  
**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](http://www.irpc.co.th), <https://polimaxx.irpc.co.th>

## 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
Polystyrene	9003-53-6	500-008-9	>=87
1,3-Butadiene Polymer	9003-17-2	Polymer	>= 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** : If molten material should splash into eyes, flush eyes immediately with fresh water for 15 minutes while holding the eyelid open.
- 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 Measures

- Suitable extinguishing agents** : Dry chemicals, foam, water, carbon dioxide and halon. Avoid using direct streams of water on molten burning material.
- Hazards during fire-fighting** : Carbon monoxide, carbon dioxide, original monomer other hydrocarbon oxidation products.
- Protective equipment** : Wear self-contained respiratory protective device.

#### Section 6 – Accidental Release Measures

- Personal precautions** : Avoid dust formation.
- 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 Storage

- 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, well-ventilated area or silo away from sources of heat, flame and sparks. Keep away from moisture, excessive heat and sources of ignition. Do not place in direct sunlight.

## Section 8 – Exposure Controls / Personal Protection

**Exposure limits** : No exposure limit value known

### 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 : Ensure that eyewash stations and safety showers are proximal to the work-station location.
- 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.

## Section 9 – Physical and Chemical Properties

<b>Appearance</b>	: Opaque Pellet
<b>Odour</b>	: Characteristic odor
<b>Colour</b>	:
<b>Boiling Point</b>	: Not Applicable
<b>Initial Boiling Point</b>	:
<b>Flash Point</b>	: Not Applicable
<b>Melting Point</b>	: Not Applicable
<b>Vapour Pressure</b>	: Not Applicable
<b>Auto ignition temperature</b>	: Not Applicable
<b>Solubility</b>	: Soluble in polar solvent
<b>Viscosity</b>	: Not Applicable
<b>Upper/Lower flammability or explosive limit</b>	: Not Applicable
<b>pH</b>	: Not Applicable
<b>Relative density</b>	: Not Applicable
<b>Vapour density</b>	:
<b>Partition characteristics</b>	:
<b>Specific Gravity</b>	: 1.04 - 1.05 (Water = 1)
<b>Partition coefficient: n-octanol/water</b>	: Not Applicable
<b>Decomposition temperature</b>	: Not Applicable
<b>Explosive properties</b>	: Not Applicable
<b>Softening Point</b>	: > 90

## Section 10 – Stability and Reactivity

<b>Stability</b>	: Stable under normal ambient temperature.
<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 dioxide, carbon monoxide, hydrocarbons, dense smoke.

### Section 11 – Toxicological Information

**Acute Toxicity** : No relevant studies found.

**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** : The product does not have any known adverse effects on the environment.

### Section 13 – Disposal Considerations

**Disposal methods:**

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.

### 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.

## Section 16 – Other Information

ADR	: European agreement concerning the international carriage of dangerous goods by road.
RID	: Regulations concerning the international carriage of dangerous goods by rail.
DOT	: Department of Transportation
IATA	: International air transport association
ICAO	: International Civil Aviation Organization
IMDG-CODE	: International maritime dangerous goods code
CLP	: Classification and Labeling of Packaging
GHS	: Globally Harmonized System of Classification and Labeling of Chemicals
HMIS	: Hazardous Materials Identification System
NFPA	: National Fire Protection Association
WHMIS	: Workplace Hazardous Materials Information System

### NFPA – USA

Health : 0                      Flammability : 1                      Reactivity : 0

### HMIS

Health : 0                      Flammability : 1                      Reactivity : 0

### SDS Information

GHS Revision : 7

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