

SAFETY DATA SHEET

Revision Date: 10 October 2019

Section 1 - Identification

Product Name : 321F

Product Type : General Purpose EPS

Product Use : Insulating material, packaging material

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
Polystyrene	9003-53-6	Polymer	94-95
Pentane	109-66-0	203-692-4	5-6





Section 4 - First-aid Measures

Skin Exposure : Flush skin and hair with running water (and soap if available). If molten

material comes in contact with the skin, cool under ice water or a running stream of water.DO NOT attempt to remove the material from the skin.Get

medical attention.

Eyes Exposure : Flush with water for at least 20 minutes.Remove contact lenses, if worn.Get

immediate medical attention.

Inhalation : Remove person to fresh air.Get medical attention if breathing difficulties

continue.

Ingestion : DO NOT induce vomiting. If contamination of the mouth occurs, wash out

thoroughly with water. Seek medical advice.

Section 5 – Fire-fighting Measures

Suitable extinguishing agents: Foam, CO2, Dry chemical powder, water spray or fog. Avoid using

direct streams of water on molten burning material.

Hazards during fire-fighting: Carbon monoxide (CO), carbon dioxide (CO2), other pyrolysis

products typical of burning organic material. Carbon monoxide (CO), carbon dioxide (CO2), other pyrolysis products typical of burning

organic material.

Protective equipment : Wear self-contained respiratory protective device.

Section 6 - Accidental Release Measures

Personal precautions: Avoid breathing vapors, mist or gas.

Environmental precautions: Discharge into the environment must be avoided.

Cleanup:

Sweep/shovel up or spray with water and collect in a suitable container. Place waste in an appropriate container for disposal.

Section 7 - Handling and Storage

Handling : Use with adequate ventilation. Appropriate grounding is required. (Prevent against static electricity). Avoid smoking, naked lights or

ignition sources. Avoid contact with eyes and skin.

Storage conditions : Keep separated from incompatible substances. Do not place in

direct sunlight. Store in a dry place away from ignition sources and strong oxidizers. Store in cool location and ventilated place.





Section 8 - Exposure Controls / Personal Protection

Exposure limits

Component Name	Reference	TWA		STEL	
		ppm	mg/m3	ppm	mg/m3
Dontono	ACGIH TLV	1000	2950	-	-
Pentane	OSHA PEL	1000	2950	-	-

Personal protective equipment

Respiratory protection : Wear respiratory protection if ventilation is inadequate.

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 :

Auto ignition temperature

Section 9 – Physical and Chemical Properties

Apprearance : Bead

Odour : Characteristic odor

Boiling Point : Not Applicable

Flash Point : 345 - 360°C

Melting Point : Not Applicable

Vapour Pressure : Not Applicable

Solubility : Insoluble in water

501dbiffty : insoluble in water

Viscosity : Not Applicable

Upper/Lower flammability or explosive

limit

Not Applicable

Not Applicable

pH : Not Applicable

Relative density : Not Applicable

Specific Gravity : 1.04 (Water = 1)

Partition coefficient: n-octanol/water : Not Applicable

Decomposition temperature : Not Applicable

Explosive properties : Not Applicable

Softening Point : > 100 ?C





Section 10 - Stability and Reactivity

Stability : Stable under normal ambient temperature.

Condition to Avoid : Avoid heat, sparks, open flames and other ignition sources.DO NOT heat

without adequate ventilation.

Material to Avoid : Avoid solvents and oxidizing agents.

Dangerous decomposition: Carbon monoxide (CO), carbon dioxide (CO2), other pyrolysis products

typical of burning organic material.

Section 11 – Toxicological Information

Acute Toxicity :

Chemical name	Route	Species	Acute Toxic Value
Pentane	Oral	Rat	LD50 >2,000 mg/kg

Irritating/corrosive effects

Eye Irritation : May cause 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 : No data available.

Mobility in soil : No data available.

Other adverse effects : No data available.

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	2211	9	III	**************************************	POLYMERIC BEADS, EXPANDABLE, evolving flammable vapor
ADR/RID	2211	9	III		POLYMERIC BEADS, EXPANDABLE, evolving flammable vapor
IMDG CODE	2211	9	III		POLYMERIC BEADS, EXPANDABLE, evolving flammable vapor
ICAO/IATA	2211	9	III		POLYMERIC BEADS, EXPANDABLE, evolving flammable vapor

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

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.

