

SAFETY DATA SHEET

In according 3rd revision GHS

Revision Date : 22 May 2017

Section 1 – Identification

Product Name : 1032L Homopolymer polypropylene
Product Type : Polypropylene Homopolymer
Product Use : Extrusion, Monofilament/Yarn
Manufacturer : IRPC Public Company Limited
299 Moo. 5 Sukhumvit Road, Amphur Muang, Rayong THAILAND
Emergency Call : +66(0) 38802560
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
Polypropylene homopolymer	9003-07-0	-	>99

Section 4 – First-aid Measures

Skin Exposure : 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.

Eyes Exposure : 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 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. 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.

Section 7 – Handling and Storage

Handling : Exposure of polystyrene to extremely high temperatures may cause partial decomposition. Chemicals that may be released include styrene monomer, benzene, and other hydrocarbons. Handling of pellets may form dust.

Storage conditions : Store in a cool, dry, well-ventilated area or silo away from sources of heat, flame and sparks. Ventilate enclosed storage areas, such as trailers and railcars, before entering.

Section 8 – Exposure Controls / Personal Protection

Exposure limits :

Component Name	Reference	TWA		STEL	
		ppm	mg/m3	ppm	mg/m3
Polypropylene	Canada-OEL	-	10	-	-
	Italy-OEL	-	10	-	-

Personal protective equipment

Respiratory protection : No special respiration protection is normally required.

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 : 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.

Section 9 – Physical and Chemical Properties

Appearance	: Opaque, translucent
Odour	: Slight
Boiling Point	: Not Applicable
Flash Point	: Not Applicable
Melting Point	: 130-170°C
Vapour Pressure	: Not Applicable
Auto ignition temperature	: Not Applicable
Solubility	: Insoluble in water
Viscosity	: Not Applicable
Upper/Lower flammability or explosive limit	: Not Applicable
pH	: Not Applicable
Relative density	: Not Applicable
Specific Gravity	: Not Applicable
Partition coefficient: n-octanol/water	: Not Applicable
Decomposition temperature	: Not Applicable
Explosive properties	: Not Applicable
	:

Section 10 – Stability and Reactivity

Stability	: This material is considered a stable thermoplastic, with no chemical reactivity under normal ambient and anticipated handling conditions of temperature and pressure.
Condition to Avoid	: Avoid temperatures above 300°C.
Material to Avoid	: Avoid solvents and oxidizing agents.
Dangerous decomposition	: Carbon monoxide (CO), carbon dioxide (CO ₂), other pyrolysis products typical of burning organic material.

Section 11 – Toxicological Information

Acute Toxicity :

Chemical name	Route	Species	Acute Toxic Value
Polypropylene	Oral	Rat	LD50 >8,000 mg/kg

Irritating/corrosive effects

Eye Irritation	: Solid particles may cause transient irritation from mechanical abrasion.
Skin Irritation	: Molten material may cause thermal burns.
Inhalation	: Not found a significant inhalation hazard under anticipated conditions of normal use.
Ingestion	: May cause a choking hazard if swallowed.

Section 12 – Ecological Information

- Eco-toxicity** : No relevant studies found.
- Persistence and degradability** : This material is not expected to be readily biodegradable.
- Bio-accumulative potential** : 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:

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	-	-	-	-	-
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.

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

This product does not meet WHMIS classification criteria.

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
CLP	: Classification and Labeling of Packaging
GHS	: Globally Harmonized System of Classification and Labeling of Chemicals
NFPA	: National Fire Protection Association
TWA	: Time Weighted Average
LC50	: Lethal Concentration, 50%
HMIS	: Hazardous Materials Identification System
WHMIS	: Workplace Hazardous Materials Information System

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