

SAFETY DATA SHEET

Revision Date : 9 September 2019

Section 1 – Identification

Product Name : K4527B
Product Type : Polypropylene
Product Use : Injection Molding for Medical devices
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
Polypropylene	9003-07-0	Polymer	>=95
Propylene Ethylene Copolymer	9010-79-1	Polymer	=<5

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. Get 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** : Not a probable route of exposure. If person is conscious, rinse mouth with water. Do not induce vomiting unless directed to do so by a physician.

Section 5 – Fire-fighting Measures

- Suitable extinguishing agents** : Dry chemical, foam, water fog or carbon dioxide. 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** : Use a mask with universal filler. Use self-contained breathing apparatus and full protective clothing.

Section 6 – Accidental Release Measures

- Personal precautions** : Avoid inhalation and direct contact.
- 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** : Use with adequate ventilation. Avoid dust generation. Accumulations of dust should be removed from settling areas. Avoid contact with eyes and skin.
- 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. Have emergency equipment for fires and spills readily available.

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 : Wear safety glasses with side shields, goggles or face shield.
- 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

Appearance	: Translucent
Odour	: Odourless
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 heating above the recommended processing temperature. DO NOT heat without adequate ventilation.
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	: Not expected to 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 : This material is not expected to be readily biodegradable.

Bio-accumulative potential : Product is not likely to accumulate in biological organisms.

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

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
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
OEL	: Occupational Exposure Limits
LD50	: Lethal Dose, 50%
HMIS	: Hazardous Materials Identification System
NFPA	: National Fire Protection Association
WHMIS	: Workplace Hazardous Materials Information System
TWA	: Time Weighted Average

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