

SAFETY DATA SHEET

In Accordance with 3rd revised edition of GHS

Section 1 – Identification		
Product Name	:	R1760
Chemical Name and Synonyms	s :	High density polyethylene-butene copolymer, Ethylene-butene copolymer, Poly (ethylene-co-1-butene), HDPE, PE
Product Use	:	Raw material for plastic industry, Resin, extrusion and compounding, plastic molding, molded articles, films and coatings
Manufacturer	:	IRPC Public Company Limited. 299 Moo 5 Sukhumvit Road AmphurMuang Rayong THAILAND
Emergency Call	:	+66(0) 38 802560
Website	:	www.irpc.co.th, www.irpcmarket.com
Section 2- Hazards Identifie	cat	ion
Regulation (EC) No 1272/2008	8:	This product is not classified as dangerous according to Regulation (EC) No 1272/2008.
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
Polyethylene	9002-88-4	Polymer	≥98
Ethylene-propylene Copolymer	9010-79-1	Polymer	≤ 2

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
Eyes Exposure		skin. Remove could result in serve tissue damage. Get medical attention. 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-fightin	g Me	asures
Suitable extinguishing ager	nts :	Dry chemical, foam, water fog or carbon dioxide. Avoid using direct streams

of water on molten burning material



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Hazards during fire-fighting Protective equipment	:	Carbon monoxide, carbon dioxide, original monomer other hydrocarbon oxidation products include Use a mask with universal filler. Use self-contained breathing apparatus and full protective clothing.
Section 6 - Accidental Rele	eas	e 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 St	ora	age
Handling	:	Use with adequate ventilation. Avoid dust generation. Avoid contact with eyes and skin. Accumulations of dust should be removed from settling areas.
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

Commente	Deferre	TV	TWA		EL
Component Name	Reference	ppm	mg/m3	ppm	mg/m3
Deluethulene	Italy OEL	-	10	-	-
Polyethylene	Japan OEL for Dusts	-	-	-	8
Personal protective equipr Respiratory protection	nent : No special respir	ation protection	is normally rec	quired.	
Eye protection Protective clothing	 Wear safety glass Gloves required v MSHA/NIOSH ap and full protectiv 	when handling h proved self-cont	ot material. In o	case of fire, we	
Ventilation	: Provide adequate ventilation when processing material at elevated temperatures.			vated	
Engineering Controls	: For molten materials: Provide mechanical ventilation; in general such ventilation should be provided at compounding/ converting areas and a fabricating/ filling work stations where the material is heated. Local exh ventilation should be used over and in the vicinity of machinery involved handling the molten material.		reas and at . Local exhaust		
Section 9–Physical and Chemical Properties					
Appearance	: Opaque, transluc	ent, colorless pe	llets or white fl	uff (powder),	solid

- Odor
- : Characteristic Odor



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рН	÷	Not applicable		
Vapor Pressure	:	Not applicable		
Vapor Density	:	Not applicable		
Boiling Point	:	Not applicable		
Melting Point	:	110 -140 °C		
Flash Point	:	340 °C (ASTM D1929)		
Auto-ignition	:	380 °C		
Solubility	:	Insoluble in water		
Specific Gravity	:	0.9-1.0		
Relative Density	: $0.9-1.0 \text{ g/cm}^3$			
Bulk Density	:	400(powder)-600(pellet) kg/m ³		
Volatile Matter (wt)	: < 0.1%			
Water Absorption :		<0.05%		
Upper/Lower explosive limit	:	Not available		
Section 10 – Stability and R	ea	ctivity		
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	:	May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. May react with free halogens.
Dangerous decomposition	:	Small quantities of low molecular weight hydrocarbons, alcohols, aldehydes (incl. Formaldehyde), carboxylic acids, carbon oxides and ketones can be
		formed during thermal processing.

Hazardous polymerization products: Hazardous polymerization will not occur.

Section 11 – Toxicological Information

Acute Toxicity				
Chemical name		Route	Species	Acute Toxic Value
Polyethylene		Oral	Rat	LD ₅₀ > 3000 mg/kg
roiyettiytette		Inhalation	Mouse	LC ₅₀ 12000 mg/m ³ /3M
Irritating/corrosive effects				
Eye Irritation	: Solid particl	es may cause transi	ent irritation from	m mechanical abrasion
Skin Irritation	: Not expecte burns.	d to cause skin irrita	ation. Molten mat	terial may cause thermal
Inhalation	: Not a likely	route of exposure. P	rocess fumes ma	y cause irritation
Ingestion	: May cause a	choking hazard if sy	wallowed.	
Other information				
Carcinogenic effect:				
International Agency for Resea	rch on Cancer (IA	RC): Group 3 Not cla	ssifiable as to its	carcinogenicity to humans.



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Section 12 – Ecological Information

Eco-toxicity	:	No relevant studies identified.
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 data available.
Other adverse effects	:	No data available.
Section 13 – Disposal Considerations		

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	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.

European Inventory of Existing Commercial Chemical Substances (EINECS)

The components of this product are on the EINECS inventory or are exempt from inventory requirements.

NFPA - USA

Health – 0, Flammability – 1, Reactivity – 0

Canada - WHMIS

This product does not meet WHMIS classification criteria.

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



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NFPA	:	National Fire Protection Association
WHMIS	:	Workplace Hazardous Materials Information System

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