

SAFETY DATA SHEET

High Density Polyethylene Pipe Compound

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name : POLIMAXX® HDPE Pipe Compound
 Product Code : P901BK
 Manufacturer : IRPC Public Company Limited
 299 Moo 5 Sukhumvit Road AmphurMuangRayong Thailand
 Emergency Call : +66(0) 38 802560
 Website : www.irpc.co.th, www.irpcmarket.com

SECTION 2. HAZARDS IDENTIFICATION

Regulation (EC) No 1272/2008 : This product is not classified as dangerous according to Regulation (EC) No 1272/2008.
 Directive 67/548/EEC : This product is not classified as dangerous according to EU Directive 67/548/EEC.
 Regulation (EC) No 1907/2006 : This product is complied REACH Regulation (EC) No 1907/2006.
 GHS : Not classified
 Label elements : Not applicable
 Other hazards : Not applicable

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Ingredient	CAS Number
	Base Powder	9002-88-4

Additional Information : Polymer, which may also described as: Ethylene-butene-1 copolymer.

While this product is not classified as hazardous under OSHA Regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and made available for employees and other users of the product.

SECTION 4. FIRST AID MEASURES

Skin Exposure : If hot vapor or molten polymer contact skin, cool rapidly with cold water.
 Eyes Exposure : Flush with plenty of water. Seek medical attention if discomfort persists, and to remove foreign body.
 Inhalation : Remove to fresh air. Seek medical attention if breathing difficulties occur.
 Ingestion : If a significant quantity has been swallowed, give glasses of water to dilute.
 For helper protection : Avoid the contact with molten polymer
 Note to Physicians : If the polymer is heated at too high temperature or if is burned, gases may be released. Patients who have been exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked.

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 and carbon dioxide, and original monomer other hydrocarbon oxidation Products.
 Specific Hazards : Inhalation of vapors or fumes.
 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.
 Clean-up Methods: : 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. Avoid contact with eyes and skin.
Accumulations of dust should be removed from settling areas.

Storage:

Storage conditions : Store in a dry place from heat and direct sunlight.
Properly : Good ventilation and temperature preferably
Avoid : Dust, heat sources, sparks and flame.
Risk symbols : Not applicable
Safety material to package : Plastic bags or paper material are recommended.

SECTION 8. EXPOSURE CONTROLS/ PERSONNEL PROTECTION

Exposure limits

Component Name	Reference	TWA		OEL	
		ppm	mg/m ³	ppm	mg/m ³
Polyethylene	Italy OEL	-	10	-	-
	Japan OEL for Dusts	-	-	-	8

Personal protective equipments

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 SHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.
Ventilation : Provide adequate ventilation when processing material at elevated temperatures.

Other protective equipments : N.A

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

Physical Appearance : Pellet.
Color : Black.
Odor : Slight to none.
Melting Point : 100-140°C
Auto Ignition Temperature : Not Applicable
Density : 0.953 – 0.959 g/cm³
Vapour density : Not Applicable
Vapour Pressure : Not Applicable
Solubility in Water : Insoluble.

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability : Material is stable under ordinary conditions of use and storage.
Hazardous reactions : Will not occur
Condition to Avoid : Flame: avoid prolonged heating at processing temperature or temperature above 280°C (536°F)
Material to Avoid : Halogen, strong oxidizing and aromatic solvents.
Hazardous Decomposition Products : Aliphatic Hydrocarbons.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical name	Route	Species	Acute Toxic Value
Polyethylene	Oral	Rat	LD ₅₀ > 3000 mg/kg
	Inhalation	Mouse	LC ₅₀ 12000 mg/m ³ /3M

Irritating/corrosive effects

- Eye Irritation : Solid particles may cause transient irritation from mechanical abrasion
- Skin Irritation : Not expected to cause skin irritation. Molten material may cause thermal burns.
- Inhalation : Not a likely route of exposure. Process fumes may cause irritation
- Ingestion : May cause a choking hazard if swallowed.

Other information

Carcinogenic effect:

- International Agency for Research on Cancer (IARC): Group3
- NOT classifiable as to its carcinogenicity to humans.

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.

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 licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material)
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14. TRANSPORT INFORMATION

- Land (RID/ ADR) : Not classified.
- Seas (IMO/ IMDG) : Not classified.
- Air (ICAO-IATA) : Not classified.

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.

EU Directives 67/548/EEC, 1999/45/EC and Regulation (EC) No 1272/2008

The product is not classified as dangerous for supply according to the Regulation (EC) No 1272/2008 and the EC directive 67/548/EEC and 1999/45/EC.

NFPA - USA

Health - 1, Flammability - 1, Reactivity - 0

Canada - WHMIS

This product does not meet WHMIS classification criteria.

Canada - DSL

This product is listed in DSL.

SECTION 16. OTHER INFORMATION

The information in this document is based on our best present. Nevertheless, it does not constitute a guarantee for any specific product features and does not establish any a legally binding contract.

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
NFPA	: National Fire Protection Association
WHMIS	: Workplace Hazardous Materials Information System
DSL	: Domestic Substances List

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.

