

IPLEX POLYBUTYLENE PIPES



SAFETY DATA SHEET

Current Issue: 27th May 2019

STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to Safework Australia criteria.

Polymer identified as low concern to human health by application of expert validated rules – Tier 1 IMAP¹ assessment status = final; as per National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

Note 1: Inventory Multi-tiered Assessment Prioritisation Framework

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company: Iplex Pipelines Australia Pty Ltd

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Product Name: Iplex Pro-fit[®] Polybutylene (PB-1) Pipes for hot and cold water applications

Other Names: Pro-fit[®], Poly(1-butene), Polybutylene-1, 1-butene homopolymer.

Use: For residential and commercial hot and cold water applications.

CAS RN No (s) None

Packaging Group: None

Dangerous Goods Class None

Subsidiary Risk: None

Hazchem Code: None

Poisons Schedule Number: None

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE

Extruded polybutylene single wall pipe in diameters DN18 and DN22, various length.
Insoluble in water, No odour, Boiling Point (deg C): Not available.

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PROPERTIES

Melting Point (°C):	120 – 125 °C
Vapour Pressure (kPa):	Not applicable
Specific Gravity:	0.93
Flash Point (°C):	Non allocated
Auto-ignition temperature:	No auto-ignition at normal temperatures
Lower Explosive Limit (%):	Not applicable
Upper Explosive Limit (%):	Not applicable
Solubility in Water (g/L):	Insoluble

INGREDIENTS

Name	CAS #	Proportion
Polybutylene polymer	9003-28-5	+95%
Pigments		
Grey: Non hazardous polymer pigment blend		2-4%

No other ingredient information supplied.

HAZARDS IDENTIFICATION

Emergency Overview: No significant health hazards identified.

POTENTIAL HEALTH EFFECTS

Eye: No significant health hazards identified. Pipe is made from an inert material.

Skin: No significant health hazards identified. Skin protection is not normally required. Pipes carrying hot water can cause thermal burns, or where material has been melted.

Inhalation: No significant irritation expected other than possible mechanical irritation.

Ingestion: No significant health hazards identified.

FIRST AID

Eye: Flush eyes with plenty of water. Get medical attention if irritation persists.

Skin: Skin protection is not normally required. If skin irritation wash with soap and water. For thermal burns, cool quickly with water and seek medical attention. Do not peel off solidified material.

Inhalation: If adverse effects occur, remove to uncontaminated area. Get medical attention.

Ingestion: Not a likely route of exposure.

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FIRE FIGHTING MEASURES

Flashpoint:	Greater than 243°C (estimated)
UEL:	Not determined.
LEL:	Not determined.
Auto Ignition Temperature:	No auto-ignition at normal temperatures
Flammability Classification:	None
Extinguishing Media:	Agents approved for Class A hazards (e.g., foam, steam) or water fog.
Unusual Fire and Explosion Hazards:	Low fire hazard. May evolve oxides of carbon (CO _x) and toxic vapors/gases under fire conditions.
Fire-Fighting Equipment:	Fire fighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.
Precautions:	Dusts or fines dispersed in the air can be explosive if subjected to a strong ignition source. Use water spray to cool fire exposed surfaces.
Hazardous Combustion Products:	Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

ACCIDENTAL RELEASE MEASURES

Vacuum or sweep out; avoid producing dust. Increase ventilation if possible.

HANDLING AND STORAGE

Handling: Material is slippery under foot. Minimize dust generation and accumulation. Take appropriate measures to prevent static discharges, which may include thorough electrical interconnecting, grounding of equipment, and/or conveyance under inert gas.

Storage: Do not expose pipe to direct sunlight for extended periods, store undercover.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye: None required; however, use of eye protection is good industrial practice.

Skin: None required; however, use of protective gloves/clothing is good industrial practice.

Inhalation: Use with adequate ventilation. If general ventilation is inadequate, local exhaust ventilation should be used to dispose of vapours from hot processing equipment, particularly during purging. Do not breathe dust. If ventilation is inadequate, use respirator that will protect against dust/mist. If heated and ventilation is inadequate, use respirator which will protect against organic vapour and dust/mist.

Engineering Controls: Control airborne concentrations below the exposure guidelines.

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Exposure Guidelines

Component	CAS#	Exposure Limits
Polybutylene	9003-28-5	ACGIH TLV-TWA: (not available)

CHEMICAL AND PHYSICAL PROPERTIES

Appearance and Odour:	Opaque pipe.
pH:	Not determined.
Vapour Pressure:	Not determined.
Vapour Density:	Not determined.
Boiling Point:	Not determined.
Melting Point:	120-125°C
Solubility in Water:	Insoluble
Specific Gravity (Water=1):	0.93

STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: None identified.

Materials to Avoid: Avoid chlorine, fluorine, and other strong oxidizers.

Hazardous Decomposition: The major decomposition products are low molecular weight oligomers (C6-18) of polypropylene. Degradation products may include trace amounts of acrolein, formaldehyde, aldehydes, and other organic vapours.

Hazardous Polymerization: Will not occur.

TOXICOLOGICAL INFORMATION**Acute Toxicity Data:**

Eye Irritation: Testing not conducted. See Other Toxicity Data.

Skin Irritation: Testing not conducted. See Other Toxicity Data.

Dermal Ld50: Testing not conducted. See Other Toxicity Data.

Oral Ld50: Testing not conducted. See Other Toxicity Data.

Inhalation Lc50: Testing not conducted. See Other Toxicity Data.

Other Toxicity Data: Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on information from similar products, the ingredients, technical literature, and/or professional experience.

Dense dust generated by the handling and/or processing of this material may be irritating to the eyes, skin, nose, and throat.

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No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or IARC.

ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

DISPOSAL INFORMATION

Disposal must be in accordance with applicable federal, state, or local regulations.

TRANSPORTATION INFORMATION

HAZCHEM:

None (ADG6)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG

REGULATORY INFORMATION

POISONS SCHEDULE

None

OTHER INFORMATION

The MSDS is a Hazard Communication tool and should be used to assist in the Risk Management. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the name of the product.

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