

Iplex Polyethylene Pipes

Iplex Pipelines

Chemwatch Hazard Alert Code: 1

Chemwatch: 90638

Version No: 3.1.1.1

Material Safety Data Sheet according to NOHSC and ADG requirements

Issue Date: 27/06/2017

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S.Local.AUS.EN.RISK

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Iplex Polyethylene Pipes
Synonyms	PE Poly Polythene extruded pipe injection moulded fabricated fittings
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Domestic, farm and industrial potable water reticulation, for industrial process water; for above ground and underground drainage pipes, sewer pipes.
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Details of the supplier of the safety data sheet

Registered company name	Iplex Pipelines
Address	67 Malden Street Palmerston North New Zealand
Telephone	+64 6 358 2004 0800 800 262
Fax	+64 6 356 2906
Website	Not Available
Email	Not Available

Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	1	1	
Toxicity	0	0	
Body Contact	1	1	
Reactivity	0	0	
Chronic	0	0	

0 = Minimum
1 = Low
2 = Moderate
3 = High
4 = Extreme

Poisons Schedule	Not Applicable				
Risk Phrases [1]	<table border="1"> <tr> <td>R37?</td> <td>May produce discomfort of the respiratory system*.</td> </tr> <tr> <td>R40(3)?</td> <td>Limited evidence of a carcinogenic effect*.</td> </tr> </table> <p>*LIMITED EVIDENCE</p>	R37?	May produce discomfort of the respiratory system*.	R40(3)?	Limited evidence of a carcinogenic effect*.
R37?	May produce discomfort of the respiratory system*.				
R40(3)?	Limited evidence of a carcinogenic effect*.				
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI				

Not Applicable

Relevant risk statements are found in section 2

Indication(s) of danger	Not Applicable
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SAFETY ADVICE

S02	Keep out of reach of children.
S56	Dispose of this material and its container at hazardous or special waste collection point.

Other hazards

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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
		Solid formed plastic shapes, processed from
9002-88-4	>=90	polyethylene
Not Available	<=1	colour pigment unregulated
Not Available	2-4	stabilizers, antioxidants, unregulated in plastics
		No other ingredient information supplied.

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	<p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	<p>Brush off dust. Seek medical attention if swelling/redness/blistering or irritation occurs.</p>
Inhalation	<ul style="list-style-type: none"> If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear breathing passages. Ask patient to rinse mouth with water but to not drink water. Seek immediate medical attention. <p>or amp;52av1</p>
Ingestion	<p>Overexposure is unlikely in this form.</p> <ul style="list-style-type: none"> If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Water spray or fog.
- amp;11o amp;41h amp;11o amp;41e

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with strong oxidising agents as ignition may result
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Advice for firefighters

Fire Fighting	<ul style="list-style-type: none"> Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area.
Fire/Explosion Hazard	<p>Combustible. Will burn if ignited. amp;43r1 Not considered to be a significant fire risk</p> <p>NOTE: Burns with intense heat. Produces melting, flowing, burning liquid and dense acrid black smoke. amp;43cu amp;43cv, carbon monoxide (CO)</p>
HAZCHEM	Not Applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	Generally not applicable.
Major Spills	Clean up all spills immediately. Secure load if safe to do so. Collect/ bundle recovered product.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

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SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	Avoid generating and breathing dust. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area amp;1 amp;75ad Wash hands with soap and water after handling. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS.
Other information	Store flat in load designed racking.

Conditions for safe storage, including any incompatibilities

Suitable container	Piping may be strapped in bundles. Fittings usually in boxes.
Storage incompatibility	No known incompatibility with normal range of industrial materials



- X** — Must not be stored together
0 — May be stored together with specific preventions
+ — May be stored together

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
polyethylene	Polyethylene	28 mg/m3	310 mg/m3	1,000 mg/m3

Ingredient	Original IDLH	Revised IDLH
polyethylene	Not Available	Not Available
colour pigment unregulated	Not Available	Not Available
stabilizers, antioxidants, unregulated in plastics	Not Available	Not Available

Exposure controls

Appropriate engineering controls	Use in a well-ventilated area Avoid breathing generated dust when cutting, finishing. If risk of dust inhalation exists wear dust mask/ respirator.
Personal protection	
Eye and face protection	<ul style="list-style-type: none"> ▶ Safety glasses with side shields; or as required, ▶ Chemical goggles. ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.
Skin protection	See Hand protection below
Hands/feet protection	<ul style="list-style-type: none"> ▶ Barrier cream amp;11a amp;72cot amp;11o amp;72leath ▶ Safety footwear
Body protection	See Other protection below
Other protection	<ul style="list-style-type: none"> ▶ Overalls. ▶ Eyewash unit.
Thermal hazards	Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Coloured moulded polyethylene plastic shapes as extruded pipes and injection[moulded pipe fittings; insoluble in water. No odour. Available for pressure]and non pressure applications, in diameters up to DN630 mm. Pipes may be Blue, Yellow, Black, Black with blue stripe or yellow stripe. Also Black with a Blue, White or Yellow outer.
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Iplex Polyethylene Pipes

Physical state	Manufactured	Relative density (Water = 1)	0.92-0.97
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature	260 approx
Melting point / freezing point (°C)	105-130 Softens	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not available.	Molecular weight (g/mol)	Not Available
Flash point (°C)	260 approx	Taste	Not Available
Evaporation rate	Non Volatile	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Nil @ 38 C.
Vapour pressure (kPa)	Negligible	Gas group	Not Available
Solubility in water (g/L)	Insoluble	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	<p>► Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations. Generated dust may be highly discomforting amp;54i Fusion welding operations may give rise to fumes. The vapour from overheated or scorched material is amp;5040 amp;54i</p>
Ingestion	Considered an unlikely route of entry in commercial/industrial environments
Skin Contact	Generated dust may be discomforting amp;5300 amp;5421
Eye	Generated dust may be discomforting amp;5200
Chronic	Principal routes of exposure are usually by amp;5530, skin contact amp;11a amp;5553 As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

Iplex Polyethylene Pipes	TOXICITY	IRRITATION
	Not Available	Not Available
polyethylene	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Not Available
	Inhalation (mouse) LC50: 1.5 mg/l/30m ^[2]	
	Oral (rat) LD50: >3000 mg/kg ^[2]	

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. * Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Iplex Polyethylene Pipes	No data of toxicological significance identified in literature search.
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Acute Toxicity	⊘	Carcinogenicity	⊘
Skin Irritation/Corrosion	⊘	Reproductivity	⊘
Serious Eye Damage/Irritation	⊘	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	⊘	STOT - Repeated Exposure	⊘
Mutagenicity	⊘	Aspiration Hazard	⊘

Legend: ✗ - Data available but does not fill the criteria for classification
✓ - Data available to make classification

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☒ - Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Iplex Polyethylene Pipes	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available

polyethylene	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available

Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
polyethylene	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
polyethylene	LOW (LogKOW = 1.2658)

Mobility in soil

Ingredient	Mobility
polyethylene	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	Waste treatment methods
	Recycle wherever possible. Bury residue in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Label	Requirement
Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

POLYETHYLENE(9002-88-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
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National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (polyethylene)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	N (polyethylene)
Japan - ENCS	Y

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Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Name	CAS No
polyethylene	9002-88-4, 101484-63-3, 101484-75-7, 101484-82-6, 1021428-03-4, 103843-11-4, 106705-26-4, 110736-46-4, 11098-28-5, 11119-24-7, 11119-25-8, 112041-35-7, 112821-11-1, 112821-13-3, 113690-26-9, 1137119-09-5, 114013-55-7, 114451-17-1, 114471-09-9, 1187527-29-2, 121761-95-3, 1227178-23-5, 1228118-98-6, 126040-16-2, 126040-17-3, 126879-40-1, 12728-29-9, 1281939-84-1, 131461-84-2, 131461-85-3, 1365657-57-3, 1365657-58-4, 136958-80-0, 1383916-56-0, 1393813-70-1, 142985-61-3, 150632-74-9, 151595-17-4, 153302-16-0, 156799-29-0, 159251-50-0, 160612-77-1, 161051-67-8, 163751-84-6, 172451-63-7, 174594-04-8, 176365-96-1, 177529-72-5, 177771-90-3, 177893-37-7, 183076-46-2, 184182-05-6, 187619-93-8, 189120-95-4, 191490-32-1, 199128-49-9, 201948-42-7, 202876-24-2, 208196-83-2, 211174-40-2

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. 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.

Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average
 PC – STEL: Permissible Concentration-Short Term Exposure Limit
 IARC: International Agency for Research on Cancer
 ACGIH: American Conference of Governmental Industrial Hygienists
 STEL: Short Term Exposure Limit
 TEEL: Temporary Emergency Exposure Limit,
 IDLH: Immediately Dangerous to Life or Health Concentrations
 OSF: Odour Safety Factor
 NOAEL :No Observed Adverse Effect Level
 LOAEL: Lowest Observed Adverse Effect Level
 TLV: Threshold Limit Value
 LOD: Limit Of Detection
 OTV: Odour Threshold Value
 BCF: BioConcentration Factors
 BEI: Biological Exposure Index

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TEL (+61 3) 9572 4700.