# **Iplex Polyethylene Pipes**

# **Iplex Pipelines**

Chemwatch Hazard Alert Code: 2

Issue Date: 22/06/2022

Print Date: 27/06/2022

L.GHS.AUS.EN.E

Chemwatch: 90638 Version No: 5.1 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### **Product Identifier**

Product name	Iplex Polyethylene Pipes			
Chemical Name	Not Applicable			
Synonyms	ythene extruded pipe injection moulded fabricated fittings			
Chemical formula	Not Applicable			
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.

# Details of the supplier of the safety data sheet

Registered company name	Iplex Pipelines				
Address	Level 4, 68 Waterloo Road Macquarie Park NSW 2113 Australia				
Telephone	1300 047 539 +61 1800 251 374				
Fax	Not Available				
Website	http://www.iplex.com.au				
Email	info@iplexpipelines.com.au				

## **Emergency telephone number**

Association / Organisation	Iplex Pipelines		
Emergency telephone numbers	07 3881 9222 (Mon – Fri, 7am to 5pm)		
Other emergency telephone numbers	Not Available		

## **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

Poisons Schedule	Not Applicable
Classification [1]	Carcinogenicity Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### Label elements

Hazard pictogram(s)

# H351 Suspected of causing cancer. Precautionary statement(s) Prevention P201 Obtain special instructions before use. Wear protective gloves and protective clothing. P280 Precautionary statement(s) Response P308+P313 IF exposed or concerned: Get medical advice/ attention. Precautionary statement(s) Storage P405 Store locked up. Precautionary statement(s) Disposal P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. Not Applicable **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight] Name				
Not Available		Solid formed plastic shapes, processed from			
9002-88-4	>90	polyethylene			
1333-86-4	0-5	carbon black			
Not Available	0-5 colour pigment unregulated				
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available					

#### **SECTION 4 First aid measures**

### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with eyes:</li> <li>Wash out immediately with water.</li> <li>If irritation continues, seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> <li>Generally not applicable.</li> </ul>
Skin Contact	<ul> <li>If skin or hair contact occurs:</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> <li>Generally not applicable.</li> </ul>
Inhalation	<ul> <li>If dust is inhaled, remove from contaminated area.</li> <li>Encourage patient to blow nose to ensure clear breathing passages.</li> <li>Ask patient to rinse mouth with water but to not drink water.</li> <li>Seek immediate medical attention.</li> <li>Generally not applicable.</li> </ul>
Ingestion	Generally not applicable.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 Firefighting measures**

Do NOT direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

Foam.

Δ

- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility result
-----------------------------

Advice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> <li>Slight hazard when exposed to heat, flame and oxidisers.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon monoxide (CO)</li> <li>carbon dioxide (CO2)</li> <li>formaldehyde</li> <li>acrolein</li> <li>other pyrolysis products typical of burning organic material.</li> </ul> NOTE: Burns with intense heat. Produces melting, flowing, burning liquid and dense acrid black smoke. May emit corrosive fumes.

#### **SECTION 6 Accidental release measures**

HAZCHEM

#### Personal precautions, protective equipment and emergency procedures

Not Applicable

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

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

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

# **SECTION 7 Handling and storage**

#### Precautions for safe handling

Safe handling	Avoid generating and breathing dust.
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

#### **SECTION 8 Exposure controls / personal protection**

1,750 mg/m3

#### **Control parameters**

Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	carbon black	Carbon black	3 mg/m3	Not Available	Not Available	Not Available

# Emergency Limits Ingredient TEEL-1

Ingredient	TEEL-1	TEEL-2	TEEL-3	
polyethylene	16 mg/m3	170 mg/m3	1,000 mg/m3	
carbon black	9 mg/m3	99 mg/m3	590 mg/m3	
Ingredient	Original IDLH		Revised IDLH	
polyethylene	Not Available		Not Available	

Not Available

#### MATERIAL DATA

carbon black

#### 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> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves. <ul> <li>Protective gloves eg. Leather gloves or gloves with Leather facing</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>Eyewash unit.</li> </ul>

#### **Respiratory protection**

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Respiratory protection not normally required due to the physical form of the product.

# **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 are mainly Black with Blue, Yellow, Lilac, Grey or Cream stripe.		
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 Available
pH (as supplied)	Not Applicable	Decomposition temperature	~260
Melting point / freezing point (°C)	Softens @ 105-130	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	~260	Taste	Not Available
Evaporation rate	Not Applicable	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	Immiscible	pH as a solution (Not Available%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	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	<ul> <li>Fusion welding operations may give rise to fumes.</li> <li>Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.</li> <li>Processing for an overly long time or processing at overly high temperatures may cause generation and release of highly irritating vapours, which irritate eyes, nose, throat, causing red itching eyes, coughing, sore throat.</li> <li>Inhalation hazard is increased at higher temperatures.</li> <li>Not normally a hazard due to non-volatile nature of product</li> </ul>
Ingestion	Considered an unlikely route of entry in commercial/industrial environments

Page 6 of 10

Iplex Polyethylene Pipes

Skin Contact	Open cuts, abraded or irritated skin should not be exposed to this material Generated dust may be discomforting to the skin if exposure is prolonged		
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
Chronic	On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. Harmful: danger of serious damage to health by prolonged exposure through inhalation.		
	ΤΟΧΙCITY	IRRITATION	
Iplex Polyethylene Pipes	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
polyethylene	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available	
	Oral (Rat) LD50; >2000 mg/kg <sup>[1]</sup>		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
carbon black	Dermal (rabbit) LD50: >3000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (Rat) LD50; >8000 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
Legend:	<ol> <li>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</li> </ol>		
	polyethylene pyrolyzate for poly-alpha-olefins (PAOs):		
		oduced by oligomerisation of 1-octene, 1-decene, and/or 1-dodecene. Th	
	crude polyalphaolefin mixture is then distilled into appropriate product fractions to meet specific viscosity specifications an hydrogenated.		

Read across data exist for health effects endpoints from the following similar hydrogenated long chain branched alkanes derived from a C8, C10, and/or C12 alpha olefins:

- Decene homopolymer
- Decene/dodecene copolymer
- Octene/decene/dodecene copolymer
- Dodecene trimer

POLYETHYLENE

The data for these structural analogs demonstrated no evidence of health effects. In addition, there is evidence in the literature that alkanes with 30 or more carbon atoms are unlikely to be absorbed when administered orally. The physicochemical data suggest that it is unlikely that significant absorption will occur. If a substance of the size and structure of a typical PAO is absorbed, then the principal mechanisms of absorption after oral administration are likely to be passive diffusion and absorption by way of the lymphatic system. The former requires both good lipid solubility and good water solubility as the substance has to partition from an aqueous environment through a lipophilic membrane into another aqueous environment during absorption. Absorption by way of the lymphatics occurs by mechanisms analogous to those that absorb fatty acids and is limited by the size of the molecule. Lipophilicity generally enhances the ability of chemicals to cross biological membranes. Biotransformation by mixed function oxidases often increases the water solubility of a substance; however, existing data suggest that these substances will not undergo oxidation to more hydrophilic metabolites. Finally, a chemical must have an active functional group that can interact chemically or physically with the target cell or receptor upon reaching it; there are no moieties in PAOs that represent a functional group that may have biological activity. The water solubilities of a C10 dimer PAO and a C12 trimer PAO were determined to be <1 ppb and < 1 ppt respectively. The partition coefficient for a C12 trimer PAO was determined to be log Kow of >7. Given the very low water solubility it is extremely unlikely that PAOs will be absorbed by passive diffusion following oral administration, and the size of the molecules suggest that the extent of lymphatic absorption is likely to be very low. Although PAOs are relatively large lipophilic compounds, and molecular size may be a critical limiting determinant for absorption, there is some evidence that these substances are absorbed. However, the lack of observed toxicity in the studies with PAOs suggests that these products are absorbed poorly, if at all. Furthermore, a review of the literature regarding the absorption and metabolism of long chain alkanes indicates that alkanes with 30+ carbon atoms are unlikely to be absorbed. For example the absorption of squalane, an analogous C30 product, administered orally to male CD rats was examined - essentially all of the squalane was recovered unchanged in the faeces. At the same time, the hydrophobic properties of PAOs suggest that, should they be absorbed, they would undergo limited distribution in the aqueous systemic circulation and reach potential target organs in limited concentrations.

In addition to the general considerations discussed above, the low volatility of PAOs indicates that, under normal conditions of use or transportation, exposure by the inhalation route is unlikely. In particular, the high viscosity of these substances suggests that it would be difficult to generate a high concentration of respirable particles in the air.

Acute toxicity: PAOs (decene/dodecene copolymer, octene/decene/dodecene homo-polymer, and dodecene trimer) have been adequately tested for acute oral toxicity. There were no deaths when the test materials were administered at doses of 5,000 mg/kg (decene/dodecene copolymer and dodecene trimer) and at 2,000 mg/kg (octene/decene/dodecene copolymer) in rats. Overall, the acute oral LD50 for these substances was greater than the 2000 mg/kg limit dose, indicating a relatively low order of

# **Iplex Polyethylene Pipes**

	toxicity.			
	PAOs (decene/dodecene copolymer, octene/do			
	the acute dermal LD50 for these substances w	-	d at the limit dose of 2000 or 5000 mg/kg. Overall, mit dose, indicating a relatively low order of	
	toxicity.	, , , , , , , , , , , , , , , , , , ,	,	
	1-Decene, homopolymer, is absorbed (unexpe	ctedly for a high molecular weigh	t polymer) to a moderate degree in rat skin	
	and is eliminated slowly PAOs (decene homopolymer, decene/dodecer	e conclumer, and decene trimer)	have been tested for acute inhalation toxicity	
			entrations of 2.5, 5.0, and 5.06 mg/L, respectively,	
	for four hours. These levels were the maximun	n attainable concentrations under	the conditions of the tests, due to the low	
	, , ,	•	nimals fully recovered following depuration. The	
	lack of mortality at concentrations at or above substances.	the limit dose of 2.0 mg/L indicate	is a relatively low order of toxicity for these	
	Repeat dose toxicity: Eight repeated-dose to	xicity studies using two different a	nimal species, rats and mice, and oral and	
	dermal routes of administration have been con			
	analogs exhibit a low order of toxicity following physicochemical properties.	repeated applications, due to the	ir similarity in chemical structures and	
	One 28-day oral toxicity study in rats, one 90-c	day dermal and two 90-day dietar	v studies in rats, and a dermal carcinogenicity	
	study in mice exist for decene homopolymer. A			
	also conducted with decene homopolymer. In a substances (dodecene trimer and octene/dece			
	-		ler of repeated dose toxicity. The dermal NOAEL	
	for systemic toxicity studies was equal to or group	• • •		
	The oral NOAEL for 1-decene homopolymer is	•		
	Rats exposed repeatedly by dermal exposure incidences of hyperplasia of the sebaceous gla		of the epidermis and dermal inflammation. These	
	symptoms generally subsided within 2 weeks.		•	
			hydrogenated did not exhibit any clinical signs of	
	systemic toxicity. Marginal effects on clinical cr were seen.	nemistry (glucose and ALT in male	es; sodium, phosphorus and calcium in females)	
	Reproductive toxicity: Data are available for	decene homopolymer. Results fro	om these studies show a low order of	
			000 mg/kg/day, the highest concentration tested.	
	The lack of effects on fertility in this study or effects on reproductive organs in this or other subchronic studies with closely related			
	chemicals indicates that PAOs are unlikely to exert effects on reproduction. Developmental toxicity: Decene homopolymer (with 10 ppm of an antioxidant) was administered once daily on gestation days			
	<ul> <li>0-19 via dermal application to presumed-pregnant rats at doses of 0, 800, and 2000 mg/kg/day. Dermal administration of the test material did not adversely affect parameters of reproductive performance during gestation, nor did it adversely affect <i>in utero</i> survival and development of the offspring. The NOAEL in this study for developmental parameters was 2000 mg/kg/day.</li> <li>Genotoxicity: Information for the following PAOs (decene homopolymer, octene/decene/dodecene copolymer, dodecene trimer; and decene/dodecene copolymer [<i>prepared from 10% C12 and 90% C10 alpha olefins; approx. 33% trimer and 51% tetramer, 16% pentamer and higher</i>]) is available. Either bacterial or mammalian gene mutation assays, <i>in vitro</i> chromosomal aberration assays have been conducted for these substances. Neither mutagenicity nor clastogenicity were exhibited by any of these substances in the referenced <i>in vivo</i> or <i>in vitro</i> tests, with or without metabolic activation.</li> <li>Carcinogenicity: While alpha-olefin polymers have similar properties to mineral oils, they do not contain polycyclic aromatic hydrocarbons, or other known possible carcinogens.</li> </ul>			
	Decene homopolymer produced no treatment-	•	ed with a 50 ul/application twice weekly for 104	
	weeks. In addition, survival (56%) was greater than in any other group, including the untreated control.			
	Inclusion of polyethylene in the diet of rats at 8			
	rats and mice has reportedly caused local tume exposure is not certain.	origenic activity at doses of 33 to	2120 mg/kg, but the relevance to numan	
	The substance is classified by IARC as Group	3:		
	NOT classifiable as to its carcinogenicity to hu			
	Evidence of carcinogenicity may be inadequate			
CARBON BLACK	Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil r	eponed		
	WARNING: This substance has been classifier	d by the IARC as Group 2B: Poss	ibly Carcinogenic to Humans.	
Iplex Polyethylene Pipes &	No significant acute toxicological data identifie	d in literature search		
CARBON BLACK				
Acute Toxicity	×	Carcinogenicity	✓	
Skin Irritation/Corrosion	×	Reproductivity	×	
Serious Eye				
Damage/Irritation	×	STOT - Single Exposure	×	
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×	

Mutagenicity X

Legend:

 $\mathbf{X}$  – Data either not available or does not fill the criteria for classification

×

**Aspiration Hazard** 

Data entremot available of does not minute criteria for classification
 Data available to make classification

# **SECTION 12 Ecological information**

#### Toxicity

Iplex Polyethylene Pipes	Endpoint	Test Duration (hr)	Spe	cies		Value	Source
	Not Available	Not Available	Not	Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Spe	cies		Value	Source
polyethylene	Not Available	Not Available	Not	Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Specie	s	Value		Source
	EC50	72h	Algae o	or other aquatic plants	>0.2m	ng/l	2
carbon black	NOEC(ECx)	24h	Crustac	cea	3200r	ng/l	1
	EC50	48h	Crustad	cea	33.07	6-41.968mg/l	4
	LC50	96h	Fish		>100r	ng/l	2
Legend:		1. IUCLID Toxicity Data 2. Europ	-		-	-	
	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

Recycle wherever possible or consult manufacturer for recycling options.
Consult State Land Waste Authority for disposal.
Bury or incinerate residue at an approved site.
Recycle containers if possible, or dispose of in an authorised landfill.

# **SECTION 14 Transport information**

#### Labels Required

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

# Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group	
polyethylene	Not Available	
carbon black	Not Available	

# Transport in bulk in accordance with the ICG Code

Product name	Ship Type	
polyethylene	Not Available	
carbon black	Not Available	

# **SECTION 15 Regulatory information**

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

polyethylene is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	International WHO List of Proposed Occupational Exposure Limit (OEL)
International Agency for Research on Cancer (IARC) - Agents Classified by	Values for Manufactured Nanomaterials (MNMS)
the IARC Monographs	
carbon black is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous	International Agency for Research on Cancer (IARC) - Agents Classified by
Chemicals	the IARC Monographs
Australian Inventory of Industrial Chemicals (AIIC)	International Agency for Research on Cancer (IARC) - Agents Classified by
Chemical Footprint Project - Chemicals of High Concern List	the IARC Monographs - Group 2B: Possibly carcinogenic to humans
	International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

# **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (polyethylene; carbon black)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (polyethylene)	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

# **SECTION 16 Other information**

Revision Date	22/06/2022
Initial Date	28/09/2002

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
4.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
5.1	22/06/2022	Acute Health (eye), Acute Health (inhaled), Acute Health (skin), Appearance, Chronic Health, Classification, Disposal, Exposure Standard, Fire Fighter (extinguishing media), Fire Fighter (fire/explosion hazard), Fire Fighter (fire fighting), Fire Fighter (fire incompatibility), First Aid (eye), First Aid (inhaled), First Aid (skin), First Aid (swallowed), Handling Procedure, Ingredients, Personal Protection (eye), Personal Protection (hands/feet), Physical Properties, Synonyms, Toxicity and Irritation (Other)

#### Other information

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 ES: Exposure Standard 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** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.