

# Flashing Tape

Ardex (Ardex Australia)
Chemwatch: 8044-16

Version No: **7.1**Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

### Chemwatch Hazard Alert Code: 1

Issue Date: 01/11/2019 Print Date: 28/11/2022 L.GHS.AUS.EN.E

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

#### **Product Identifier**

Product name	Flashing Tape
Chemical Name	Not Applicable
Synonyms	butyl rubber black joining flashing mastic tape
Chemical formula	Not Applicable
Other means of identification	Not Available

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

#### Details of the manufacturer or supplier of the safety data sheet

Registered company name	Ardex (Ardex Australia)			
Address	20 Powers Road Seven Hills NSW 2147 Australia			
Telephone	1800 224 070			
Fax	1300 780 102			
Website	www.ardexaustralia.com			
Email	technicalservices@ardexaustralia.com			

#### Emergency telephone number

Association / Organisation	Ardex (Ardex Australia)		
Emergency telephone numbers	1800 224 070 (Mon-Fri, 9am-5pm)		
Other emergency telephone numbers	Not Available		

#### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

#### NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

#### Chemwatch Hazard Ratings

	Min	Max	
Flammability	1		
Toxicity	0		0 = Minimum
Body Contact	0		1 = Low
Reactivity	1		2 = Moderate
Chronic	0		3 = High 4 = Extreme

Poisons Schedule	Not Applicable
Classification [1]	Not Applicable

#### Label elements

Hazard pictogram(s) Not Applicable

Flashing Tape

Issue Date: 01/11/2019 Print Date: 28/11/2022

Signal word Not Applicable

#### Hazard statement(s)

Not Applicable

#### Precautionary statement(s) Prevention

Not Applicable

#### Precautionary statement(s) Response

Not Applicable

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

Not Applicable

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	[weight] Name				
Not Available		Tape consisting of				
9003-27-4	NotSpec.	isobutylene homopolymer				
9003-29-6	NotSpec.	2-butene homopolymer - polybutene				
25038-36-2	NotSpec.	ethylene/ propylene/ ethylidenenorbornene terpolymer				
1333-86-4	NotSpec.	carbon black				
9010-85-9	NotSpec.	isoprene/ isobutene copolymer (butyl rubber)				
Not Available	NotSpec. additives, unregulated					
Not Available		on a				
Not Available		polyethylene backing with release surface layer				
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	Not normally a hazard due to physical form of product.
Skin Contact	If skin or hair contact occurs:  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.  Not normally a hazard due to physical form of product.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>Not normally a hazard due to physical form of product.</li> </ul>

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

Treat symptomatically.

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

#### **Extinguishing media**

- Alcohol stable foam.
- Dry chemical powder.
- Carbon dioxide.
- Water spray or fog Large fires only.

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

Fire Incompatibility ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result Chemwatch: 8044-16 Version No: 7.1

### Flashing Tape

Issue Date: 01/11/2019 Print Date: 28/11/2022

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding 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> </ul>
Fire/Explosion Hazard	NOTE: Burns with intense heat. Produces melting, flowing, burning liquid and dense acrid black smoke.  Combustion products include: carbon monoxide (CO) carbon dioxide (CO2)
HAZCHEM	Not Applicable

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

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

See section 8

#### **Environmental precautions**

See section 12

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

Minor Spills	Sweep up. Collect recoverable product into labelled containers for recycling Place in suitable containers for disposal.
Major Spills	Advise emergency services.  Control personal contact with the substance, by using protective equipment Collect recoverable product into labelled containers for recycling Recover uncontaminated product in clean, dry, labelled containers

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

#### **SECTION 7 Handling and storage**

Precautions for safe handling	
Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Atmosphere should be checked against exposure standards</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Always wash hands with soap and water after handling.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

#### Conditions for safe storage, including any incompatibilities

Suitable container	No restriction on the type of containers.  • Check that containers are clearly labelled
Storage incompatibility	<ul> <li>Avoid reaction with oxidising agents</li> <li>Avoid strong acids, bases.</li> </ul>

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

Not Available

#### **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**

isobutylene homopolymer

Ingredient	TEEL-1	TEEL-2		TEEL-3
carbon black	9 mg/m3	99 mg/m3		590 mg/m3
Ingredient	Original IDLH		Revised IDLH	

Not Available

Chemwatch: 8044-16 Version No: 7.1

#### Page 4 of 9 Flashing Tape

Issue Date: 01/11/2019 Print Date: 28/11/2022

Ingredient	Original IDLH	Revised IDLH
2-butene homopolymer - polybutene	Not Available	Not Available
ethylene/ propylene/ ethylidenenorbornene terpolymer	Not Available	Not Available
carbon black	1,750 mg/m3	Not Available
isoprene/ isobutene copolymer (butyl rubber)	Not Available	Not Available

#### MATERIAL DATA

None assigned. Refer to individual constituents.

#### **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

#### Air Speed: Type of Contaminant: 0.25-0.5 m/s solvent, vapours, degreasing etc., evaporating from tank (in still air) (50-100 f/min) aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray 0.5-1 m/s (100-200 drift, plating acid fumes, pickling (released at low velocity into zone of active generation) f/min.) direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active 1-2.5 m/s (200-500 generation into zone of rapid air motion) f/min) grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of 2.5-10 m/s (500-2000 f/min.) very high rapid air motion).

#### Appropriate engineering controls

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood - local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

#### Personal protection









No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE:

Safety glasses with side shields.

#### Eye and face protection

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 equivalentj
Skin protection	See Hand protection below
Hands/feet protection	No special equipment needed when handling small quantities.  OTHERWISE: Wear chemical protective gloves, e.g. PVC.
Body protection	See Other protection below

No special equipment needed when handling small quantities. OTHERWISE:

## Other protection

- Overalls.
- Barrier cream.
- Evewash unit.

Flashing Tape

Issue Date: 01/11/2019 Print Date: 28/11/2022

#### 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 ^

<sup>^ -</sup> 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)

#### **SECTION 9 Physical and chemical properties**

Information on basic physical and chemical properties
-------------------------------------------------------

Appearance	Slightly black tacky solid in a roll form with polyethylene backing. Insoluble in water.		
Physical state	Manufactured	Relative density (Water = 1)	Not Available
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 (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	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)	Negligible
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

#### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. 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	Not normally a hazard due to non-volatile nature of product			
Ingestion	Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract			
Skin Contact	Not normally a hazard due to physical form of product.			
Eye	Not normally a hazard due to physical form of product.			
Chronic	This manufactured article is considered to have low hazard potential if handling and personal protection recommendations are followed.			
Floring Tour	TOXICITY	IRRITATION		
Flashing Tape	Not Available	Not Available		

Flashing Tape	TOXICITY  Not Available	IRRITATION  Not Available
isobutylene homopolymer	TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	IRRITATION  Not Available

Chemwatch: **8044-16**Page **6** of **9**Version No: **7.1** 

Flashing Tape

Issue Date: 01/11/2019
Print Date: 28/11/2022

	Oral (Rat) LD50; >2000 mg/kg <sup>[1]</sup>		
	Oral (Nat) ED30, 22000 Highligh		
	TOXICITY	IRRITATION	
2-butene homopolymer - polybutene	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available	
polybuterie	Oral (Rat) LD50; >2000 mg/kg <sup>[1]</sup>		
ethylene/ propylene/	TOXICITY	IRRITATION	
ethylidenenorbornene terpolymer	Not Available	Not Available	
	TOXICITY	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>	
isoprene/ isobutene	TOXICITY	IRRITATION	
copolymer (butyl rubber)	Not Available	Not Available	
Legend:	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		

## 2-BUTENE HOMOPOLYMER - POLYBUTENE

Inhalation (rat) TCLo: 700 mg/m3/7H/2W-I

Acute Oral Toxicity

Oral LD50 has not been determined for EPDM rubbers. Based on tests conducted on similar products, it is understood that oral toxicity may be very low, on a single dose basis.

Inhalation Toxicity

The polymer may contain contains traces of ethylidene norbornene (ENB) which may be released during storage and processing. ENB is moderately toxic with an LD50 of 732 ppm/4H (inhalation, mouse). Under normal storage and processing conditions with adequate ventilation and exhaust, the ACGIH TLV-C for ENB should not be reached

Exposure to ENB vapours may cause irritation of the respiratory tract, with symptoms such as nasal discomfort and discharge, and coughing possibly accompanied by chest pains, headache, or dizziness. Eye contact with ENB vapour may be irritating. Fumes may evolve during hot processing of EPDM may irritate eyes, nose, and throat.

Polymer dust may cause irritation.

#### ETHYLENE/ PROPYLENE/ ETHYLIDENENORBORNENE TERPOLYMER

Occupational exposures in the rubber-manufacturing industry are carcinogenic to humans (Group 1).IARC Working Groups
There is sufficient evidence in humans for the carcinogenicity of occupational exposures in the rubber-manufacturing industry. Occupational exposures in the rubber-manufacturing industry cause leukaemia, lymphoma, and cancers of the urinary bladder, lung, and stomach.
Also, a positive association has been observed between occupational exposures in the rubber-manufacturing industry and cancers of the prostate, oesophagus, and larynx.IARC Working Group.

The multiple genetic and cytogenetic effects observed among workers employed in the rubber-manufacturing industry provide strong evidence to support genotoxicity as one mechanism for the observed increase in cancer risks. However, due to the complexity and changing nature of the exposure mixture and the potential interactions between exposures in the rubber-manufacturing industry, other mechanisms are also likely to play a role. While it is clear that exposure to some agents in the rubber-manufacturing industry has been reduced over time, the results of recent cytogenetic studies continue to raise concerns about cancer risks.

The rubber-manufacturing industry has used and still uses a wide variety of substances that belong to many different chemical categories, e.g. carbon black, aromatic amines, PAH, N-nitrosamines, mineral oils, other volatile organic compounds from curing fumes, trace amounts of monomers from synthetic rubber like 1,3-butadiene, acetonitrile, styrene, vinyl chloride, ethylene oxide, etc.. For this reason, it has been difficult to relate the observed cancer hazards in the rubber-manufacturing industry to exposure to specific chemicals.

#### **CARBON BLACK**

Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported

WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.

# ISOBUTYLENE HOMOPOLYMER & ETHYLENE/ PROPYLENE/ ETHYLIDENENORBORNENE TERPOLYMER & CARBON BLACK & ISOPRENE/ ISOBUTENE COPOLYMER (BUTYL RUBBER)

No significant acute toxicological data identified in literature search.

Acute Toxicity	×	Carcinogenicity	·
Acute Toxicity	^	Carcinogenicity	^
Skin Irritation/Corrosion	X	Reproductivity	X
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

X – Data either not available or does not fill the criteria for classification

🧪 – Data available to make classification

#### **SECTION 12 Ecological information**

#### Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Flashing Tape	Not Available	Not Available	Not Available	Not Available	Not Available

Page 7 of 9

Issue Date: **01/11/2019**Print Date: **28/11/2022** 

#### Flashing Tape

isobutylene homopolymer	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	96h	Algae or other aquatic plants	0.009-1.099mg	
	EC50	72h	Algae or other aquatic plants	>19.2mg/l	2
	EC50	48h	Crustacea	0.04mg/l	2
	LC50	96h	Fish	0.001-1.19mg/l	2
	EC50	96h	Algae or other aquatic plants	0.009-1.099mg	/1 2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	96h	Algae or other aquatic plants	0.009-1.099mg	/1 2
2-butene homopolymer -	EC50	72h	Algae or other aquatic plants	>19.2mg/l	2
polybutene	EC50	48h	Crustacea	0.04mg/l	2
	LC50	96h	Fish	0.001-1.19mg/l	2
	EC50	96h	Algae or other aquatic plants	0.009-1.099mg	/1 2
ethylene/ propylene/	Endpoint	Test Duration (hr)	Species	Value	Source
ethylidenenorbornene terpolymer	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	72h	Algae or other aquatic plants	>0.2mg/l	2
carbon black	EC50	48h	Crustacea	33.076-41.968mg	/1 4
	NOEC(ECx)	24h	Crustacea	3200mg/l	1
	LC50	96h	Fish	>100mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
isoprene/ isobutene copolymer (butyl rubber)	Not Available	Not Available	Not Available	Not Available	Not Availabl
Legend:	Ecotox databas		IA Registered Substances - Ecotoxicological Inf Aquatic Hazard Assessment Data 6. NITE (Japa		

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
isobutylene homopolymer	LOW	LOW

#### Bioaccumulative potential

Ingredient	Bioaccumulation	
isobutylene homopolymer	LOW (LogKOW = 2.2256)	

#### Mobility in soil

Ingredient	Mobility	
isobutylene homopolymer	LOW (KOC = 35.04)	

### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal
 Recycle wherever possible or consult manufacturer for recycling options.
 Consult State Land Waste Management Authority for disposal.
 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

Chemwatch: **8044-16**Version No: **7.1** 

Page 8 of 9
Flashing Tape

Product name Group isobutylene homopolymer Not Available 2-butene homopolymer -Not Available polybutene ethylene/ propylene/ ethylidenenorbornene Not Available terpolymer Not Available carbon black isoprene/ isobutene copolymer Not Available (butyl rubber)

#### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
isobutylene homopolymer	Not Available
2-butene homopolymer - polybutene	Not Available
ethylene/ propylene/ ethylidenenorbornene terpolymer	Not Available
carbon black	Not Available
isoprene/ isobutene copolymer (butyl rubber)	Not Available

#### **SECTION 15 Regulatory information**

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

isobutylene homopolymer is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

2-butene homopolymer - polybutene is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

ethylene/ propylene/ ethylidenenorbornene terpolymer is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

carbon black is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australian Inventory of Industrial Chemicals (AIIC)
Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

isoprene/ isobutene copolymer (butyl rubber) is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

#### **National Inventory Status**

National Inventory Status	Section 1	
National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	es	
Canada - NDSL	No (isobutylene homopolymer; 2-butene homopolymer - polybutene; ethylene/ propylene/ ethylidenenorbornene terpolymer; carbon black; isoprene/ isobutene copolymer (butyl rubber))	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (ethylene/ propylene/ ethylidenenorbornene terpolymer; isoprene/ isobutene copolymer (butyl rubber))	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (ethylene/ propylene/ ethylidenenorbornene terpolymer; isoprene/ isobutene copolymer (butyl rubber))	
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.	

Issue Date: 01/11/2019

Print Date: 28/11/2022

# Page 9 of 9 Flashing Tape

Issue Date: 01/11/2019 Print Date: 28/11/2022

#### **SECTION 16 Other information**

Revision Date	01/11/2019
Initial Date	01/11/2009

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
6.1	17/11/2014	Acute Health (inhaled), Acute Health (skin), Acute Health (swallowed), Chronic Health, Fire Fighter (fire/explosion hazard), Fire Fighter (fire incompatibility), Physical Properties, Storage (storage incompatibility), Transport
7.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

#### 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

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