



## Dunlop Butynol Ardex (Ardex NZ)

Chemwatch: 5523-90  
Version No: 2.1  
Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Chemwatch Hazard Alert Code: 1

Issue Date: 28/01/2022  
Print Date: 30/01/2022  
S.GHS.NZL.EN

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

#### Product Identifier

|                               |   |
|-------------------------------|---|
| Product name                  | Dunlop Butynol  |
| Chemical Name                 | Not Applicable  |
| Synonyms                      | polyisobutylene polyisoprene rubber black membrane; sheet; roll |
| 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 | Used as waterproofing membrane. |
|--------------------------|---------------------------------|

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

|                         |  |
|-------------------------|--|
| Registered company name | Ardex (Ardex NZ)                                     |
| Address                 | 32 Lane Street Woolston Christchurch New Zealand     |
| Telephone               | +64 3384 3029  |
| Fax                     | +64 3384 9779  |
| Website                 | <a href="http://www.ardex.co.nz">www.ardex.co.nz</a> |
| Email                   | info@ardexnz.com                                     |

#### Emergency telephone number

| Association / Organisation        | Ardex (Ardex NZ)      | CHEMWATCH EMERGENCY RESPONSE |
|-----------------------------------|-----------------------|------------------------------|
| Emergency telephone numbers       | +64 3 373 6900        | +64 800 700 112              |
| Other emergency telephone numbers | 0800 764 766 (NZ NPC) | +61 2 9186 1132              |

Once connected and if the message is not in your preferred language then please dial 01

### SECTION 2 Hazards identification

#### Classification of the substance or mixture

**Not considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.  
Not regulated for transport of Dangerous Goods.**

#### ChemWatch Hazard Ratings

|              | Min | Max |
|--------------|-----|-----|
| Flammability | 1   | 4   |
| Toxicity     | 1   | 4   |
| Body Contact | 1   | 4   |
| Reactivity   | 0   | 4   |
| Chronic      | 0   | 4   |

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

|   |                |
|---|----------------|
| Classification [1]                              | Not Applicable |
| Determined by Chemwatch using GHS/HSNO criteria | Not Available  |

#### Label elements

|                            |                       |
|----------------------------|-----------------------|
| <b>Hazard pictogram(s)</b> | Not Applicable        |
| <b>Signal word</b>         | <b>Not Applicable</b> |

**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] | Name                           |
|---------------|-----------|--------------------------------|
| 1333-86-4     | 20-45     | <u>carbon black</u>            |
| 9003-27-4     | NotSpec   | <u>isobutylene homopolymer</u> |
| 9003-31-0     | NotSpec   | <u>isoprene homopolymer</u>    |
| Not Available | NotSpec   | rubber accelerators            |
| Not Available | NotSpec   | vulcanising agents             |

**Legend:** 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 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**

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | <ul style="list-style-type: none"> <li>Generally not applicable.</li> </ul>   |
| <b>Skin Contact</b> | <ul style="list-style-type: none"> <li>Generally not applicable.</li> <li>If skin or hair contact occurs: <ul style="list-style-type: none"> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul> </li> </ul>   |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <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> |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>Not considered a normal route of entry.</li> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>  |

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

Treat symptomatically.

**SECTION 5 Firefighting measures****Extinguishing media**

- There is no restriction on the type of extinguisher which may be used.

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

|                             |            |
|-----------------------------|------------|
| <b>Fire Incompatibility</b> | None known |
|-----------------------------|------------|

**Advice for firefighters**

|                              |  |
|------------------------------|--|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <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> </ul> <p>Slight hazard when exposed to heat, flame and oxidisers.</p> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <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> </ul>  |

Combustion products include:  
carbon dioxide (CO<sub>2</sub>)  
other pyrolysis products typical of burning organic material.

## 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

|                     |  |
|---------------------|--|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>▶ Clean up all spills immediately.</li> <li>▶ Secure load if safe to do so.</li> <li>▶ Bundle/collect recoverable product.</li> <li>▶ Collect remaining material in containers with covers for disposal.</li> </ul> |
| <b>Major Spills</b> | <ul style="list-style-type: none"> <li>▶ Minor hazard.</li> <li>▶ Clear area of personnel.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear physical protective gloves e.g. Leather.</li> </ul>                  |

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

## SECTION 7 Handling and storage

### Precautions for safe handling

|                          |  |
|--------------------------|--|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <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> </ul> |
| <b>Other information</b> | <ul style="list-style-type: none"> <li>▶ Keep dry</li> </ul>   |

### Conditions for safe storage, including any incompatibilities

|                                |  |
|--------------------------------|--|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <li>▶ Check that containers are clearly labelled</li> </ul> No restriction on the type of containers. |
| <b>Storage incompatibility</b> | <ul style="list-style-type: none"> <li>▶ Avoid reaction with oxidising agents</li> </ul>   |

## SECTION 8 Exposure controls / personal protection

### Control parameters

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

| Source   | Ingredient           | Material name   | TWA                   | STEL          | Peak          | Notes   |
|--|----------------------|---|-----------------------|---------------|---------------|---|
| New Zealand Workplace Exposure Standards (WES) | carbon black         | Carbon black  | 3 mg/m <sup>3</sup>   | Not Available | Not Available | 6.7B-Suspected carcinogen                       |
| New Zealand Workplace Exposure Standards (WES) | isoprene homopolymer | Particulates not otherwise classified                 | 10 mg/m <sup>3</sup>  | Not Available | Not Available | Not Available                                   |
| New Zealand Workplace Exposure Standards (WES) | isoprene homopolymer | Particulates not otherwise classified respirable dust | 3 mg/m <sup>3</sup>   | Not Available | Not Available | Not Available                                   |
| New Zealand Workplace Exposure Standards (WES) | isoprene homopolymer | Diesel Particulate Matter (DPM) as elemental carbon   | 0.1 mg/m <sup>3</sup> | Not Available | Not Available | diesel engine exhaust is a confirmed carcinogen |

#### Emergency Limits

| Ingredient   | TEEL-1              | TEEL-2               | TEEL-3                |
|--------------|---------------------|----------------------|-----------------------|
| carbon black | 9 mg/m <sup>3</sup> | 99 mg/m <sup>3</sup> | 590 mg/m <sup>3</sup> |

| Ingredient              | Original IDLH           | Revised IDLH  |
|-------------------------|-------------------------|---------------|
| carbon black            | 1,750 mg/m <sup>3</sup> | Not Available |
| isobutylene homopolymer | Not Available           | Not Available |
| isoprene homopolymer    | Not Available           | Not Available |

### Exposure controls

|   |   |
|---|---|
| <b>Appropriate engineering controls</b> | None under normal operating conditions. |
|---|---|

|                            |   |
|----------------------------|---|
| <b>Personal protection</b> |  |
|----------------------------|---|

|                                |   |
|--------------------------------|---|
| <b>Eye and face protection</b> | No special equipment for minor exposure i.e. when handling small quantities.<br><b>OTHERWISE:</b><br><ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</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.</li> </ul> |
| <b>Skin protection</b>         | See Hand protection below   |
| <b>Hands/feet protection</b>   | Wear general protective gloves, eg. light weight rubber gloves.<br>No special equipment required due to the physical form of the product.   |
| <b>Body protection</b>         | See Other protection below  |
| <b>Other protection</b>        | No special equipment needed when handling small quantities.<br><b>OTHERWISE:</b><br><ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ Barrier cream.</li> <li>▶ Eyewash unit.</li> </ul>  |

### Respiratory protection

Type A 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                | -                    | A-PAPR-AUS / Class 1   |
| up to 50 x ES                      | -                    | A-AUS / Class 1      | -                      |
| up to 100 x ES                     | -                    | A-2                  | A-PAPR-2 ^             |

^ - 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(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), 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

|   |  |  |                |
|---|--|--|----------------|
| <b>Appearance</b>                                   | Black membrane sheet/roll with a slightly pungent odour; insoluble in water. |  |                |
| <b>Physical state</b>                               | Manufactured   | <b>Relative density (Water = 1)</b>            | Not Available  |
| <b>Odour</b>  | Not Available  | <b>Partition coefficient n-octanol / water</b> | Not Available  |
| <b>Odour threshold</b>                              | Not Available  | <b>Auto-ignition temperature (°C)</b>          | Not Applicable |
| <b>pH (as supplied)</b>                             | Not Applicable   | <b>Decomposition temperature</b>               | Not Available  |
| <b>Melting point / freezing point (°C)</b>          | Not Available  | <b>Viscosity (cSt)</b>                         | Not Applicable |
| <b>Initial boiling point and boiling range (°C)</b> | Not Applicable   | <b>Molecular weight (g/mol)</b>                | Not Applicable |
| <b>Flash point (°C)</b>                             | >63  | <b>Taste</b>                                   | Not Available  |
| <b>Evaporation rate</b>                             | Not Applicable   | <b>Explosive properties</b>                    | Not Available  |
| <b>Flammability</b>                                 | Combustible.   | <b>Oxidising properties</b>                    | Not Available  |
| <b>Upper Explosive Limit (%)</b>                    | Not Applicable   | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Applicable |
| <b>Lower Explosive Limit (%)</b>                    | Not Applicable   | <b>Volatile Component (%vol)</b>               | Not Applicable |
| <b>Vapour pressure (kPa)</b>                        | Not Applicable   | <b>Gas group</b>                               | Not Available  |
| <b>Solubility in water</b>                          | Immiscible   | <b>pH as a solution (Not Available%)</b>       | Not Applicable |
| <b>Vapour density (Air = 1)</b>                     | Not Applicable   | <b>VOC g/L</b>                                 | Not Available  |

## SECTION 10 Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | See section 7  |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7  |
| <b>Conditions to avoid</b>                | See section 7  |
| <b>Incompatible materials</b>             | See section 7  |
| <b>Hazardous decomposition products</b>   | See section 5  |

## SECTION 11 Toxicological information

### Information on toxicological effects

|                     |  |
|---------------------|--|
| <b>Inhaled</b>      | Not normally a hazard due to physical form of product.   |
| <b>Ingestion</b>    | Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract  |
| <b>Skin Contact</b> | Not normally a hazard due to physical form of product.   |
| <b>Eye</b>          | Not normally a hazard due to physical form of product.   |
| <b>Chronic</b>      | Primary route of exposure is usually by skin contact with the material<br>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. |

|                                | TOXICITY  | IRRITATION  |
|--------------------------------|---|---|
| <b>Dunlop Butynol</b>          | Not Available   | Not Available   |
| <b>carbon black</b>            | Dermal (rabbit) LD50: >3000 mg/kg <sup>[2]</sup><br>Oral (Rat) LD50; >8000 mg/kg <sup>[1]</sup> | Eye: no adverse effect observed (not irritating) <sup>[1]</sup><br>Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
| <b>isobutylene homopolymer</b> | dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup><br>Oral (Rat) LD50; >2000 mg/kg <sup>[1]</sup>    | Not Available   |
| <b>isoprene homopolymer</b>    | Not Available   | Not Available   |

**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

|  |  |
|--|--|
| <b>CARBON BLACK</b>  | Inhalation (rat) TCLo: 50 mg/m <sup>3</sup> /6h/90D-I Nil reported<br><b>WARNING:</b> This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.   |
| <b>ISOPRENE HOMOPOLYMER</b>  | Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Allergic potential of the allergen and period of exposure often determine the severity of symptoms. Some people may be genetically more prone than others, and exposure to other irritants may aggravate symptoms. Allergy causing activity is due to interactions with proteins. Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure. The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. |
| <b>CARBON BLACK &amp; ISOBUTYLENE HOMOPOLYMER &amp; ISOPRENE HOMOPOLYMER</b> | No significant acute toxicological data identified in literature search.   |

|  |   |                                 |   |
|--|---|---------------------------------|---|
| <b>Acute Toxicity</b>                    | ✗ | <b>Carcinogenicity</b>          | ✗ |
| <b>Skin Irritation/Corrosion</b>         | ✗ | <b>Reproductivity</b>           | ✗ |
| <b>Serious Eye Damage/Irritation</b>     | ✗ | <b>STOT - Single Exposure</b>   | ✗ |
| <b>Respiratory or Skin sensitisation</b> | ✗ | <b>STOT - Repeated Exposure</b> | ✗ |
| <b>Mutagenicity</b>                      | ✗ | <b>Aspiration Hazard</b>        | ✗ |

**Legend:** ✗ – 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        |
|--------------------------------|-----------------|---------------------------|-------------------------------|-------------------|---------------|
| <b>Dunlop Butynol</b>          | Not Available   | Not Available             | Not Available                 | Not Available     | Not Available |
| <b>carbon black</b>            | <b>Endpoint</b> | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>      | <b>Source</b> |
|                                | NOEC(ECx)       | 24h                       | Crustacea                     | 3200mg/l          | 1             |
|                                | LC50            | 96h                       | Fish                          | >100mg/l          | 2             |
|                                | EC50            | 72h                       | Algae or other aquatic plants | >0.2mg/l          | 2             |
|                                | EC50            | 48h                       | Crustacea                     | 33.076-41.968mg/l | 4             |
| <b>isobutylene homopolymer</b> | <b>Endpoint</b> | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>      | <b>Source</b> |
|                                | EC50(ECx)       | 96h                       | Algae or other aquatic plants | 0.009-1.099mg/l   | 2             |
|                                | LC50            | 96h                       | Fish                          | 0.001-1.19mg/l    | 2             |

Continued...

Dunlop Butynol

|                      |  |                           |                               |                 |               |
|----------------------|--|---------------------------|-------------------------------|-----------------|---------------|
|                      | EC50   | 72h                       | Algae or other aquatic plants | >19.2mg/l       | 2             |
|                      | EC50   | 48h                       | Crustacea                     | 0.04mg/l        | 2             |
|                      | EC50   | 96h                       | Algae or other aquatic plants | 0.009-1.099mg/l | 2             |
| isoprene homopolymer | <b>Endpoint</b>  | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>    | <b>Source</b> |
|                      | Not Available  | Not Available             | Not Available                 | Not Available   | Not Available |
| <b>Legend:</b>       | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 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 |                           |                               |                 |               |

**DO NOT** discharge into sewer or waterways.

**Persistence and degradability**

| Ingredient              | Persistence: Water/Soil | Persistence: Air |
|-------------------------|-------------------------|------------------|
| isobutylene homopolymer | LOW                     | LOW              |
| isoprene homopolymer    | LOW                     | LOW              |

**Bioaccumulative potential**

| Ingredient              | Bioaccumulation       |
|-------------------------|-----------------------|
| isobutylene homopolymer | LOW (LogKOW = 2.2256) |
| isoprene homopolymer    | LOW (LogKOW = 2.5803) |

**Mobility in soil**

| Ingredient              | Mobility          |
|-------------------------|-------------------|
| isobutylene homopolymer | LOW (KOC = 35.04) |
| isoprene homopolymer    | LOW (KOC = 67.7)  |

**SECTION 13 Disposal considerations**

**Waste treatment methods**

|                                     |  |
|-------------------------------------|--|
| <b>Product / Packaging disposal</b> | <ul style="list-style-type: none"> <li>▶ Recycle wherever possible or consult manufacturer for recycling options.</li> <li>▶ Consult State Land Waste Management Authority for disposal.</li> <li>▶ Bury residue in an authorised landfill.</li> <li>▶ Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |
|-------------------------------------|--|

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

**Disposal Requirements**

Not applicable as substance/ material is non hazardous.

**SECTION 14 Transport information**

**Labels Required**

|                         |                |
|-------------------------|----------------|
| <b>Marine Pollutant</b> | NO             |
| <b>HAZCHEM</b>          | Not Applicable |

**Land transport (UN): 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         |
|-------------------------|---------------|
| carbon black            | Not Available |
| isobutylene homopolymer | Not Available |
| isoprene homopolymer    | Not Available |

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

| Product name            | Ship Type     |
|-------------------------|---------------|
| carbon black            | Not Available |
| isobutylene homopolymer | Not Available |
| isoprene homopolymer    | Not Available |

## SECTION 15 Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard

| HSR Number     | Group Standard |
|----------------|----------------|
| Not Applicable | Not Applicable |

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

#### carbon black is found on the following regulatory lists

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)

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### isobutylene homopolymer is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

#### isoprene homopolymer is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

### Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class   | Quantities     |
|----------------|----------------|
| Not Applicable | Not Applicable |

### Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Class of substance | Quantities     |
|--------------------|----------------|
| Not Applicable     | Not Applicable |

Refer Group Standards for further information

### Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class   | Gas (aggregate water capacity in mL) | Liquid (L)     | Solid (kg)     | Maximum quantity per package for each classification |
|----------------|--------------------------------------|----------------|----------------|--|
| Not Applicable | Not Applicable                       | Not Applicable | Not Applicable | Not Applicable                                       |

### Tracking Requirements

Not Applicable

### National Inventory Status

| National Inventory                              | Status   |
|---|--|
| Australia - AIIC / Australia Non-Industrial Use | Yes  |
| Canada - DSL                                    | Yes  |
| Canada - NDSL                                   | No (carbon black; isobutylene homopolymer; isoprene homopolymer) |
| China - IECSC                                   | Yes  |
| Europe - EINEC / ELINCS / NLP                   | No (isoprene homopolymer)  |
| 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**

|                      |            |
|----------------------|------------|
| <b>Revision Date</b> | 28/01/2022 |
| <b>Initial Date</b>  | 28/01/2022 |

**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  
 AIIIC: 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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