

# Ardex (Ardex NZ)

| AIGER (AIGER NZ)   | Chemwalch Hazard Alert Code. 3 |
|--|--------------------------------|
| Chemwatch: 5516-85   | Issue Date: 22/12/2021         |
| Version No: 2.1  | Print Date: 06/01/2022         |
| Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017 | S.GHS.NZL.EN                   |

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

#### **Product Identifier**

| Product name                     | JItraPly TPO Cut Edge Sealant Grey    |  |
|----------------------------------|---------------------------------------|--|
| Chemical Name                    | Applicable                            |  |
| Synonyms                         | Not Available                         |  |
| Proper shipping name             | ADHESIVES containing flammable liquid |  |
| Chemical formula                 | Not Applicable                        |  |
| Other means of<br>identification | Not Available                         |  |

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

Relevant identified uses Adhesive.

Details of the supplier of the safety data sheet

| Registered company name | Ardex (Ardex NZ)                                 | Ardex (Shanghai) Co., Ltd   |  |
|-------------------------|--|---|--|
| Address                 | 32 Lane Street Woolston Christchurch New Zealand | 4F, Building 2, No. 481 Guiping Rd, Xuhui District, Shanghai 200233 China |  |
| Telephone               | +64 3384 3029                                    | +86 21 64161800   |  |
| Fax                     | +64 3384 9779                                    | +86 21 64161535   |  |
| Website                 | www.ardex.co.nz                                  | www.ardexchina.com  |  |
| Email                   | info@ardexnz.com                                 | techservice@ardexchina.com  |  |

#### **Emergency telephone number**

| Association / Organisation        | Ardex (Ardex NZ)      | Ardex China      |  |
|-----------------------------------|-----------------------|------------------|--|
| Emergency telephone<br>numbers    | +64 3 373 6900        | +86 573 85667029 |  |
| Other emergency telephone numbers | 0800 764 766 (NZ NPC) | +86 21 64161800  |  |

### **SECTION 2 Hazards identification**

### Classification of the substance or mixture

| Classification <sup>[1]</sup> | Flammable Liquids Category 3, Acute Toxicity (Oral) Category 4, Aspiration Hazard Category 1, Skin Corrosion/Irritation<br>Category 2, Serious Eye Damage/Eye Irritation Category 2, Acute Toxicity (Inhalation) Category 4, Carcinogenicity Category 2,<br>Reproductive Toxicity Category 1, Specific Target Organ Toxicity - Single Exposure Category 2, Specific Target Organ Toxicity -<br>Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 3 |
|-------------------------------|---|
| Legend:                       | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No<br>1272/2008 - Annex VI   |

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# UltraPly TPO Cut Edge Sealant Grey

| Determined by Chemwatch<br>using GHS/HSNO criteria | 3.1C, 6.1D (inl | nalation), 6.1D | (oral), 6.1E (aspirat | on), 6.3A, 6.4A, 6.7B, 6.8/ | A, 6.9B, 9.1C |  |
|--|-----------------|-----------------|-----------------------|-----------------------------|---------------|--|
| Label elements                                     |                 |                 |                       |                             |               |  |
|  |                 | •               | •                     |                             |               |  |

Hazard pictogram(s)

Signal word Danger

# Hazard statement(s)

| H226 | Flammable liquid and vapour.                                       |
|------|--|
| H302 | Harmful if swallowed.  |
| H304 | May be fatal if swallowed and enters airways.                      |
| H315 | Causes skin irritation.  |
| H319 | Causes serious eye irritation.                                     |
| H332 | Harmful if inhaled.  |
| H351 | Suspected of causing cancer.                                       |
| H360 | May damage fertility or the unborn child.                          |
| H371 | May cause damage to organs.  |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects.                 |

### Precautionary statement(s) Prevention

| P201 | Obtain special instructions before use.  |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed.   |
| P260 | Do not breathe mist/vapours/spray.   |

# Precautionary statement(s) Response

| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|----------------|--|
| P370+P378      | In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.  |
| P331           | Do NOT induce vomiting.  |
| P301+P310      | IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.   |

# Precautionary statement(s) Storage

| P403+P235 | Store in a well-ventilated place. Keep cool. |
|-----------|--|
| 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.

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

# Substances

See section below for composition of Mixtures

# Mixtures

| CAS No      | %[weight] | Name                                    |
|-------------|-----------|---|
| 1330-20-7   | 25-50     | xylene                                  |
| 64742-47-8. | 5-20      | isoparaffins petroleum hydrotreated HFP |
| 100-41-4    | 5-20      | ethylbenzene                            |

| CAS No   | %[weight] Name |                  |
|--|----------------|------------------|
| 13463-67-7   | <2.5           | titanium dioxide |
| 98-82-8  | <0.1           | cumene           |
| Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) N<br>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 the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>  |
|--------------|--|
| Skin Contact | <ul> <li>If skin or hair contact occurs:</li> <li>Immediately flush body and clothes with large amounts of water, using safety shower if available.</li> <li>Quickly remove all contaminated clothing, including footwear.</li> <li>Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</li> <li>Transport to hospital, or doctor.</li> </ul>   |
| 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, without delay.</li> </ul>   |
| Ingestion    | <ul> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <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>Transport to hospital or doctor without delay.</li> </ul> |

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

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. Treat symptomatically.

# **SECTION 5 Firefighting measures**

#### Extinguishing media

- ▶ Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

### 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<br>result |
|----------------------|---|
|----------------------|---|

# Advice for firefighters

| <ul> <li>Fire Fighting</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul> |  |
|--|--|
|--|--|

| Fire/Explosion Hazard | <ul> <li>Liquid and vapour are flammable.</li> <li>Moderate fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Moderate explosion hazard when exposed to heat or flame.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>metal oxides</li> <li>other pyrolysis products typical of burning organic material.</li> </ul> |
|-----------------------|---|
|-----------------------|---|

### **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 | <ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> </ul>   |
|--------------|--|
| Major Spills | <ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> </ul> |

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>The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m, Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.</li> <li>Containers, even those that have been emptied, may contain explosive vapours.</li> <li>Do NOT cut, drill, grind, weld or perform similar operations on or near containers.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Electrostatic discharge may be generated during pumping - this may result in fire.</li> <li>Ensure electrical continuity by bonding and grounding (earthing) all equipment.</li> <li>Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (&lt;=1 m/sec until fill pipe submerged to twice its diameter, then &lt;= 7 m/sec).</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of overexposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul> |
|-------------------|--|
| Other information | <ul> <li>Store in original containers in approved flammable liquid storage area.</li> <li>Store away from incompatible materials in a cool, dry, well-ventilated area.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>No smoking, naked lights, heat or ignition sources.</li> </ul>  |

# Conditions for safe storage, including any incompatibilities

| Suitable container      | <ul> <li>Packing as supplied by manufacturer.</li> <li>Plastic containers may only be used if approved for flammable liquid.</li> <li>Check that containers are clearly labelled and free from leaks.</li> <li>For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure.</li> <li>For materials with a viscosity of at least 2680 cSt. (23 deg. C)</li> <li>For manufactured product having a viscosity of at least 250 cSt.</li> </ul> |
|-------------------------|---|
| Storage incompatibility | Avoid reaction with oxidising agents  |

#### **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<br>Exposure Standards (WES) | xylene                                     | Dimethylbenzene                  | 50 ppm / 217<br>mg/m3  | Not Available          | Not<br>Available | Not Available           |
| New Zealand Workplace<br>Exposure Standards (WES) | isoparaffins petroleum<br>hydrotreated HFP | White spirits (Stoddard solvent) | 100 ppm / 525<br>mg/m3 | Not Available          | Not<br>Available | Not Available           |
| New Zealand Workplace<br>Exposure Standards (WES) | ethylbenzene                               | Ethyl benzene                    | 100 ppm / 434<br>mg/m3 | 543 mg/m3 /<br>125 ppm | Not<br>Available | Not Available           |
| New Zealand Workplace<br>Exposure Standards (WES) | titanium dioxide                           | Titanium dioxide                 | 10 mg/m3               | Not Available          | Not<br>Available | Not Available           |
| New Zealand Workplace<br>Exposure Standards (WES) | cumene                                     | Cumene                           | 25 ppm / 125<br>mg/m3  | 375 mg/m3 / 75<br>ppm  | Not<br>Available | skin-Skin<br>absorption |

# Emergency Limits

| Ingredient                                 | TEEL-1        | TEEL-2        |               | TEEL-3        |
|--|---------------|---------------|---------------|---------------|
| xylene                                     | Not Available | Not Available |               | Not Available |
| isoparaffins petroleum<br>hydrotreated HFP | 300 mg/m3     | 1,800 mg/m3   |               | 29500** mg/m3 |
| ethylbenzene                               | Not Available | Not Available |               | Not Available |
| titanium dioxide                           | 30 mg/m3      | 330 mg/m3     |               | 2,000 mg/m3   |
| cumene                                     | Not Available | Not Available |               | Not Available |
|  |               |               |               |               |
| Ingredient                                 | Original IDLH |               | Revised IDLH  |               |
| xylene                                     | 900 ppm       |               | Not Available |               |
| isoparaffins petroleum<br>hydrotreated HFP | 20,000 mg/m3  |               | Not Available |               |
| ethylbenzene                               | 800 ppm       |               | Not Available |               |
| titanium dioxide                           | 5,000 mg/m3   |               | Not Available |               |
| cumene                                     | 900 ppm       |               | Not Available |               |

# Exposure controls

| Appropriate engineering<br>controls | CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear 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. |
|-------------------------------------|--|
| 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.</li> </ul>  |
| Skin protection                     | See Hand protection below  |
| Hands/feet protection               | <ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</li> <li>Personal hygiene is a key element of effective hand care.</li> </ul>  |

| Body protection | See Other protection below   |
|-----------------|--|
| Body protection | <ul> <li>See Other protection below</li> <li>Overalls.</li> <li>PVC Apron.</li> <li>PVC protective suit may be required if exposure severe.</li> <li>Eyewash unit.</li> <li>Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.</li> <li>For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).</li> <li>Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole</li> </ul> |
|                 | Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole<br>made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground<br>the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds.  |

# Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

UltraPly TPO Cut Edge Sealant Grey

| Material          | CPI |
|-------------------|-----|
| BUTYL             | С   |
| BUTYL/NEOPRENE    | С   |
| HYPALON           | С   |
| NAT+NEOPR+NITRILE | С   |
| NATURAL+NEOPRENE  | С   |
| NEOPRENE          | С   |
| NEOPRENE/NATURAL  | С   |
| NITRILE           | С   |
| NITRILE+PVC       | С   |
| PE/EVAL/PE        | С   |
| PVA               | С   |
| PVC               | С   |
| PVDC/PE/PVDC      | С   |
| TEFLON            | С   |
| VITON             | С   |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### 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<br>Protection Factor | Half-Face<br>Respirator | Full-Face<br>Respirator | Powered Air<br>Respirator |
|---------------------------------------|-------------------------|-------------------------|---------------------------|
| up to 10 x ES                         | A-AUS                   | -                       | A-PAPR-AUS /<br>Class 1   |
| up to 50 x ES                         | -                       | A-AUS / Class<br>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(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)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

# SECTION 9 Physical and chemical properties

#### Information on basic physical and chemical properties

| Appearance      | Gray flammable liquid with characteristic odour; does not mix with water. |  |                      |
|-----------------|---|--|----------------------|
| Physical state  | Liquid  | Relative density (Water = 1)               | 0.939                |
| Odour           | Not Available   | Partition coefficient<br>n-octanol / water | Not Available        |
| Odour threshold | Not Available   | Auto-ignition temperature<br>(°C)          | 230 (ignition temp.) |

| pH (as supplied)                                | Not Applicable | Decomposition<br>temperature        | Not Available  |
|---|----------------|-------------------------------------|----------------|
| Melting point / freezing<br>point (°C)          | Not Applicable | Viscosity (cSt)                     | Not Available  |
| Initial boiling point and<br>boiling range (°C) | 137            | Molecular weight (g/mol)            | Not Applicable |
| Flash point (°C)                                | 30             | Taste                               | Not Available  |
| Evaporation rate                                | Not Available  | Explosive properties                | Not Available  |
| Flammability                                    | Flammable.     | Oxidising properties                | Not Available  |
| Upper Explosive Limit (%)                       | 7              | Surface Tension (dyn/cm<br>or mN/m) | Not Available  |
| Lower Explosive Limit (%)                       | 1.1            | Volatile Component (%vol)           | Not Available  |
| Vapour pressure (kPa)                           | 0.7 @20C       | Gas group                           | Not Available  |
| Solubility in water                             | Immiscible     | pH as a solution (%)                | Not Applicable |
| Vapour density (Air = 1)                        | Not Available  | VOC g/L                             | Not Available  |

# **SECTION 10 Stability and reactivity**

| Reactivity                          | See section 7  |
|-------------------------------------|--|
| Chemical stability                  | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| Possibility of hazardous reactions  | See section 7  |
| Conditions to avoid                 | See section 7  |
| Incompatible materials              | See section 7  |
| Hazardous decomposition<br>products | See section 5  |

# **SECTION 11 Toxicological information**

# Information on toxicological effects

| Inhaled      | There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.<br>Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.<br>Inhalation hazard is increased at higher temperatures.<br>Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor.<br>Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.<br>Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.<br>Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.<br>Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may |
|--------------|---|
| Skin Contact | result. (ICSC13733)<br>The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.<br>Open cuts, abraded or irritated skin should not be exposed to this material<br>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.<br>Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.<br>Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.<br>Limited evidence suggests that repeated exposure may cause skin cracking, flaking or drying following normal handling and use.   |
| Eye          | There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.<br>The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated.   |
| Chronic      | Strong evidence exists that this substance may cause irreversible mutations (though not lethal) even following a single exposure.<br>Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.<br>This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance  |

which can produce severe defects. Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin. There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Industrial workers exposed to 14 parts per million ethylbenzene experienced headaches, irritability and rapid fatigue. Some workers exposed for over 7 years showed nervous system disturbances, while other workers had enlarged livers. Prolonged and repeated exposure may be harmful to the central nervous system (CNS), upper respiratory tract, and/or may cause liver disorders. It may also cause drying, scaling and blistering of the skin. Women exposed to xylene in the first 3 months of pregnancy showed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically exposed to xylene has demonstrated lack of genetic toxicity.

Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]

| ItraPly TPO Cut Edge | TOXICITY  | IRRITATION  |
|----------------------|---|---|
| Sealant Grey         | Not Available                                       | Not Available   |
|                      | ΤΟΧΙΟΙΤΥ  | IRRITATION  |
|                      | Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>    | Eye (human): 200 ppm irritant   |
|                      | Inhalation(Rat) LC50; 5000 ppm4h <sup>[2]</sup>     | Eye (rabbit): 5 mg/24h SEVERE   |
| xylene               | Oral (Mouse) LD50; 2119 mg/kg <sup>[2]</sup>        | Eye (rabbit): 87 mg mild  |
|                      |   | Eye: adverse effect observed (irritating) <sup>[1]</sup>                |
|                      |   | Skin (rabbit):500 mg/24h moderate                                       |
|                      |   | Skin: adverse effect observed (irritating) <sup>[1]</sup>               |
|                      | ΤΟΧΙΟΙΤΥ  | IRRITATION  |
| oparaffins petroleum | Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>    | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>         |
| hydrotreated HFP     | Inhalation(Rat) LC50; >4.3 mg/l4h <sup>[1]</sup>    | Skin: adverse effect observed (irritating) <sup>[1]</sup>               |
|                      | Oral (Rat) LD50; >5000 mg/kg <sup>[2]</sup>         | Skin: no adverse effect observed (not irritating) $^{\left[ 1 \right]}$ |
|                      | ΤΟΧΙΟΙΤΥ  | IRRITATION  |
|                      | Dermal (rabbit) LD50: 17800 mg/kg <sup>[2]</sup>    | Eye (rabbit): 500 mg - SEVERE   |
| ethylbenzene         | Inhalation(Rat) LC50; 17.2 mg/l4h <sup>[2]</sup>    | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>         |
|                      | Oral (Rat) LD50; 3500 mg/kg <sup>[2]</sup>          | Skin (rabbit): 15 mg/24h mild   |
|                      |   | Skin: no adverse effect observed (not irritating) $^{\left[ 1 \right]}$ |
|                      | ΤΟΧΙΟΙΤΥ  | IRRITATION  |
|                      | dermal (hamster) LD50: >=10000 mg/kg <sup>[2]</sup> | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>         |
| titanium dioxide     | Inhalation(Rat) LC50; >2.28 mg/l4h <sup>[1]</sup>   | Skin (human): 0.3 mg /3D (int)-mild *                                   |
|                      | Oral (Rat) LD50; >=2000 mg/kg <sup>[1]</sup>        | Skin: no adverse effect observed (not irritating) $^{\left[ 1 \right]}$ |
|                      | ΤΟΧΙΟΙΤΥ  | IRRITATION  |
|                      | Dermal (rabbit) LD50: 2000 mg/kg <sup>[2]</sup>     | Eye (rabbit): 500 mg/24h mild   |
|                      | Inhalation(Rat) LC50; 39 mg/L4h <sup>[2]</sup>      | Eye (rabbit): 86 mg mild  |
| cumene               | Oral (Rat) LD50; 1400 mg/kg <sup>[2]</sup>          | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>         |
|                      |   | Skin (rabbit): 10 mg/24h mild   |
|                      |   |   |
|                      |   | Skin (rabbit):100 mg/24h moderate                                       |

XYLENE

Reproductive effector in rats The substance is classified by IARC as Group 3: **NOT** classifiable as to its carcinogenicity to humans.

| Serious Eye<br>Damage/Irritation                                    | ×   | STOT - Single Exposure | ×      |
|---|---|------------------------|--------|
| Skin Irritation/Corrosion<br>Serious Eye                            |   |                        |        |
| Acute Toxicity  | <ul> <li>✓</li> <li>✓</li> </ul>  | Carcinogenicity        | ✓<br>✓ |
| TITANIUM DIOXIDE &<br>CUMENE  | non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.  |                        |        |
| ETHYLBENZENE &<br>TITANIUM DIOXIDE &<br>CUMENE                      | WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.<br>Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a   |                        |        |
| ISOPARAFFINS<br>PETROLEUM<br>HYDROTREATED HFP &<br>TITANIUM DIOXIDE | No significant acute toxicological data identified in literature search.  |                        |        |
| XYLENE &<br>ETHYLBENZENE &<br>TITANIUM DIOXIDE &<br>CUMENE          | The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.  |                        |        |
| XYLENE &<br>ETHYLBENZENE  | The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.  |                        |        |
|   | Tenth Annual Report on Carcinogens: Substance anticipated to be Carcinogen<br>[National Toxicology Program: U.S. Dep. of Health & Human Services 2002]  |                        |        |
| CUMENE  | Cumene is reasonably anticipated to be a human carcinogen based on sufficient evidence of carcinogenicity from studies in experimental animals. Cumene caused tumours at several tissue sites, including lung and liver in mice and kidney in male rats. Several proposed mechanisms of carcinogenesis support the relevance to humans of lung and liver tumours in experimental animals. Specifically, there is evidence that humans and experimental animals metabolise cumene through similar metabolic pathways. There is also evidence that cumene is genotoxic in some tissues, based on findings of DNA damage in rodent lung and liver. Furthermore, mutations of the K-ras oncogene and p53 tumor-suppressor gene observed in cumene-induced lung tumours in mice, along with altered expression of many other genes, resemble molecular alterations found in human lung and other cancers. The relevance of the kidney tumors to cancer in humans is uncertain; there is evidence that a species-specific mechanism not relevant to humans contributes to their induction, but it is possible that other mechanisms relevant to humans, such as genotoxicity, may also contribute to kidney-tumour formation in male rats. For aromatic terpenes: p-cymene and cumene have low toxic potential and are excreted in the urine. At very high doses in animal testing, inco-ordination, damage to the kidneys and lung inflammation, with decrease in thymus weight, occurred. This group of substances does not seem to cause cancer, genetic damage or developmental toxicity and has low potential for reproductive toxicity. |                        |        |
| TITANIUM DIOXIDE  | * IUCLID<br>Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with<br>the possibility of producing mutation.<br>Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph<br>nodes causing dysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of<br>the particle. It penetrated only the outermost layer of the skin, suggesting that healthy skin may be an effective barrier. There is<br>no substantive data on genetic damage, though cases have been reported in experimental animals.<br>The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may<br>produce conjunctivitis.  |                        |        |
| ETHYLBENZENE  | Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded.<br>Ethylbenzene is readily absorbed when inhaled, swallowed or in contact with the skin. It is distributed throughout the body, and passed out through urine. It may irritate the skin, eyes and may cause hearing loss if exposed to high doses. Long Term exposure may cause damage to the kidney, liver and lungs, including a tendency to cancer formation, according to animal testing.<br>NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA.  |                        |        |
| ISOPARAFFINS<br>PETROLEUM<br>HYDROTREATED HFP                       | carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-<br>paraffins.<br>The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the<br>hydrophobic hydrocarbons are ingested in association with fats in the diet. Some hydrocarbons may appear unchanged as in the<br>lipoprotein particles in the gut lymph, but most hydrocarbons partly separate from fats and undergo metabolism in the gut cell.  |                        |        |
|   | Animal studies indicate that normal, branched a<br>absorption of n-paraffins is inversely proportiona   |                        | -      |

| Respiratory or Skin sensitisation | × STOT - Rep | peated Exposure 💉  |
|-----------------------------------|--------------|--|
| Mutagenicity                      | × As         | spiration Hazard 🛛 🗸   |
|                                   | legend: ¥ -  | Data either not available or does not fill the criteria for classification |

egend: X – Data either not available or does not fill the criteria for class
 – Data available to make classification

# **SECTION 12 Ecological information**

Toxicity

| UltraPly TPO Cut Edge  | Endpoint         | Test Duration (hr)  |                | Species                         |            | Value            | Source          |
|------------------------|------------------|---|----------------|---------------------------------|------------|------------------|-----------------|
| Sealant Grey           | Not<br>Available | Not Available   |                | Not Available                   |            | Not<br>Available | Not<br>Availabl |
|                        | Endpoint         | Test Duration (hr)  |                | Species                         |            | Value            | Source          |
|                        | NOEC(ECx)        | 73h   |                | Algae or other aquatic plants   |            | 0.44mg/l         | 2               |
| xylene                 | LC50             | 96h   |                | Fish                            |            | 2.6mg/l          | 2               |
|                        | EC50             | 72h   |                | Algae or other aquatic plants   |            | 4.6mg/l          | 2               |
|                        | EC50             | 48h   |                | Crustacea                       |            | 1.8mg/l          | 2               |
|                        | Endpoint         | Test Duration (hr)  |                | Species                         |            | Value            | Sourc           |
|                        | NOEC(ECx)        | 3072h   |                | Fish                            |            | 1mg/l            | 1               |
|                        | NOEC(ECx)        | 504h  |                | Crustacea                       |            | 0.097mg/l        | 2               |
| isoparaffins petroleum | EC50             | 72h   |                | Algae or other aquatic plants   |            | 0.53mg/l         | 2               |
| hydrotreated HFP       | EC50             | 96h   |                | Algae or other aquatic plants   |            | 0.58mg/l         | 2               |
|                        | NOEC(ECx)        | 720h  |                | Crustacea                       |            | 0.024mg/l        | 2               |
|                        | LC50             | 96h   |                | Fish                            |            | 0.14mg/l         | 2               |
|                        | EC50             | 96h   |                | Algae or other aquatic plants   |            | 0.277mg/l        | 2               |
|                        | Endpoint         | Test Duration (hr)  | S              | pecies                          | Valu       | e                | Sourc           |
|                        | NOEC(ECx)        | 720h  | F              | ish                             | 0.38       | 1mg/L            | 4               |
| athulhanzana           | LC50             | 96h   | F              | ish                             | 3.38       | 1-4.075mg/L      | 4               |
| ethylbenzene           | EC50             | 72h   | A              | Igae or other aquatic plants    | 4.6m       | ng/l             | 1               |
|                        | EC50             | 48h   | C              | rustacea                        | 1.37       | -4.4mg/l         | 4               |
|                        | EC50             | 96h   | A              | Igae or other aquatic plants    | 3.6m       | ng/l             | 2               |
|                        | Endpoint         | Test Duration (hr)  |                | Species                         | V          | alue             | Sourc           |
|                        | BCF              | 1008h   |                | Fish                            | <          | 1.1-9.6          | 7               |
|                        | NOEC(ECx)        | 504h  |                | Crustacea                       | 0          | .02mg/l          | 4               |
| titanium dioxide       | LC50             | 96h   |                | Fish                            | 1          | .85-3.06mg/l     | 4               |
|                        | EC50             | 72h   |                | Algae or other aquatic plants   | 3          | .75-7.58mg/l     | 4               |
|                        | EC50             | 48h   |                | Crustacea                       | 1          | .9mg/l           | 2               |
|                        | EC50             | 96h   |                | Algae or other aquatic plants   | 1          | 79.05mg/l        | 2               |
|                        | Endpoint         | Test Duration (hr)  |                | Species                         |            | Value            | Sourc           |
|                        | NOEC(ECx)        | 96h   |                | Crustacea                       |            | 0.4mg/l          | 1               |
| cumene                 | LC50             | 96h   |                | Fish                            |            | 2.7mg/l          | 2               |
|                        | EC50             | 72h   |                | Algae or other aquatic plants   |            | 1.29mg/l         | 2               |
|                        | EC50             | 48h   |                | Crustacea                       |            | 4mg/l            | 1               |
| Legend:                | 3. EPIWIN Su     | n 1. IUCLID Toxicity Data 2. Europ<br>ite V3.12 (QSAR) - Aquatic Toxici<br>atic Hazard Assessment Data 6. i | ity Data (Esti | imated) 4. US EPA, Ecotox datab | ase - Aqua | tic Toxicity Da  | nta 5.          |

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

### Persistence and degradability

| Ingredient       | Persistence: Water/Soil     | Persistence: Air            |
|------------------|-----------------------------|-----------------------------|
| xylene           | HIGH (Half-life = 360 days) | LOW (Half-life = 1.83 days) |
| ethylbenzene     | HIGH (Half-life = 228 days) | LOW (Half-life = 3.57 days) |
| titanium dioxide | HIGH                        | HIGH                        |
| cumene           | HIGH                        | HIGH                        |

#### **Bioaccumulative potential**

| Ingredient                                 | Bioaccumulation    |
|--|--------------------|
| xylene                                     | MEDIUM (BCF = 740) |
| isoparaffins petroleum<br>hydrotreated HFP | LOW (BCF = 159)    |
| ethylbenzene                               | LOW (BCF = 79.43)  |
| titanium dioxide                           | LOW (BCF = 10)     |
| cumene                                     | LOW (BCF = 35.5)   |

#### Mobility in soil

| Ingredient       | Mobility          |
|------------------|-------------------|
| ethylbenzene     | LOW (KOC = 517.8) |
| titanium dioxide | LOW (KOC = 23.74) |
| cumene           | LOW (KOC = 817.2) |

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise • If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. • Where possible retain label warnings and SDS and observe all notices pertaining to the product. • DO NOT allow wash water from cleaning or process equipment to enter drains. Product / Packaging It may be necessary to collect all wash water for treatment before disposal. disposal In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recvcle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. • Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers.

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

#### **Disposal Requirements**

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

### **SECTION 14 Transport information**

#### Labels Required

| Marine Pollutant | NO  |
|------------------|-----|
| HAZCHEM          | •3Y |

# Land transport (UN)

| UN number                       | 1133                                     |  |  |
|---------------------------------|--|--|--|
| UN proper shipping name         | ADHESIVES containing flammable liquid    |  |  |
| Transport hazard class(es)      | Class 3<br>Subrisk Not Applicable        |  |  |
| Packing group                   | III                                      |  |  |
| Environmental hazard            | Not Applicable                           |  |  |
| Special precautions for<br>user | Special provisions223Limited quantity5 L |  |  |

# Air transport (ICAO-IATA / DGR)

| UN number                       | 1133  |                |       |  |
|---------------------------------|---|----------------|-------|--|
| UN proper shipping name         | Adhesives containing flammable liquid                     |                |       |  |
|                                 | ICAO/IATA Class   | 3              |       |  |
| Transport hazard class(es)      | ICAO / IATA Subrisk                                       | Not Applicable |       |  |
|                                 | ERG Code  | 3L             |       |  |
| Packing group                   | III   |                |       |  |
| Environmental hazard            | Not Applicable  |                |       |  |
|                                 | Special provisions  |                | A3    |  |
|                                 | Cargo Only Packing Instructions                           |                | 366   |  |
|                                 | Cargo Only Maximum Qty / Pack                             |                | 220 L |  |
| Special precautions for<br>user | Passenger and Cargo Packing Instructions 355              |                |       |  |
| user                            | Passenger and Cargo Maximum Qty / Pack                    |                | 60 L  |  |
|                                 | Passenger and Cargo Limited Quantity Packing Instructions |                | Y344  |  |
|                                 | Passenger and Cargo Limited Maximum Qty / Pack            |                | 10 L  |  |

# Sea transport (IMDG-Code / GGVSee)

| UN number                       | 1133   |                      |  |
|---------------------------------|--|----------------------|--|
| UN proper shipping name         | ADHESIVES contain                                      | ing flammable liquid |  |
| Transport hazard class(es)      | IMDG Class 3<br>IMDG Subrisk N                         | 3<br>Not Applicable  |  |
| Packing group                   | Ш  |                      |  |
| Environmental hazard            | Not Applicable   |                      |  |
| Special precautions for<br>user | EMS Number<br>Special provisions<br>Limited Quantities |                      |  |

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

Continued...

| Product name                               | Group         |
|--|---------------|
| xylene                                     | Not Available |
| isoparaffins petroleum<br>hydrotreated HFP | Not Available |
| ethylbenzene                               | Not Available |
| titanium dioxide                           | Not Available |
| cumene                                     | Not Available |

# Transport in bulk in accordance with the ICG Code

| Product name                               | Ship Type     |
|--|---------------|
| xylene                                     | Not Available |
| isoparaffins petroleum<br>hydrotreated HFP | Not Available |
| ethylbenzene                               | Not Available |
| titanium dioxide                           | Not Available |
| cumene                                     | Not Available |

# **SECTION 15 Regulatory information**

xylene is found on the following regulatory lists

#### 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   |
|------------|--|
| HSR002502  | Additives Process Chemicals and Raw Materials Flammable Carcinogenic Group Standard 2020 |

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

| International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs | New Zealand Hazardous Substances and New Organisms (HSNO) Act -<br>Classification of Chemicals - Classification Data |  |  |
|---|--|--|--|
| New Zealand Approved Hazardous Substances with controls                                       | New Zealand Inventory of Chemicals (NZIoC)   |  |  |
| New Zealand Hazardous Substances and New Organisms (HSNO) Act -                               | New Zealand Workplace Exposure Standards (WES)   |  |  |
| Classification of Chemicals   |  |  |  |
| isoparaffins petroleum hydrotreated HFP is found on the following regulator                   | ry lists   |  |  |
| Chemical Footprint Project - Chemicals of High Concern List                                   | New Zealand Hazardous Substances and New Organisms (HSNO) Act -  |  |  |
| International Agency for Research on Cancer (IARC) - Agents Classified by                     | Classification of Chemicals  |  |  |
| the IARC Monographs   | New Zealand Inventory of Chemicals (NZIoC)   |  |  |
| New Zealand Approved Hazardous Substances with controls                                       | New Zealand Workplace Exposure Standards (WES)   |  |  |
| ethylbenzene is found on the following regulatory lists                                       |  |  |  |
| Chemical Footprint Project - Chemicals of High Concern List                                   | New Zealand Hazardous Substances and New Organisms (HSNO) Act -<br>Classification of Chemicals                       |  |  |
| International Agency for Research on Cancer (IARC) - Agents Classified by                     |  |  |  |
| the IARC Monographs   | New Zealand Hazardous Substances and New Organisms (HSNO) Act -  |  |  |
| International Agency for Research on Cancer (IARC) - Agents Classified by                     | Classification of Chemicals - Classification Data  |  |  |
| the IARC Monographs - Group 2B: Possibly carcinogenic to humans                               | New Zealand Inventory of Chemicals (NZIoC)   |  |  |
| New Zealand Approved Hazardous Substances with controls                                       | New Zealand Workplace Exposure Standards (WES)   |  |  |
| titanium dioxide is found on the following regulatory lists                                   |  |  |  |
| Chemical Footprint Project - Chemicals of High Concern List                                   | New Zealand Approved Hazardous Substances with controls  |  |  |
| International Agency for Research on Cancer (IARC) - Agents Classified by                     | New Zealand Hazardous Substances and New Organisms (HSNO) Act -  |  |  |
| the IARC Monographs   | Classification of Chemicals  |  |  |
| International Agency for Research on Cancer (IARC) - Agents Classified by                     | New Zealand Inventory of Chemicals (NZIoC)   |  |  |
| the IARC Monographs - Group 2B: Possibly carcinogenic to humans                               | New Zealand Workplace Exposure Standards (WES)   |  |  |
| International WHO List of Proposed Occupational Exposure Limit (OEL)                          |  |  |  |
| Values for Manufactured Nanomaterials (MNMS)  |  |  |  |
|   |  |  |  |

cumene is found on the following regulatory lists

| Chemical Footprint Project - Chemicals of High Concern List               | New Zealand Hazardous Substances and New Organisms (HSNO) Act - |
|---|---|
| International Agency for Research on Cancer (IARC) - Agents Classified by | Classification of Chemicals                                     |
| the IARC Monographs   | New Zealand Hazardous Substances and New Organisms (HSNO) Act - |
| International Agency for Research on Cancer (IARC) - Agents Classified by | Classification of Chemicals - Classification Data               |
| the IARC Monographs - Group 2B: Possibly carcinogenic to humans           | New Zealand Inventory of Chemicals (NZIoC)                      |
| New Zealand Approved Hazardous Substances with controls                   | New Zealand Workplace Exposure Standards (WES)                  |

#### **Hazardous Substance Location**

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

| Hazard Class | Quantity (Closed Containers)                  | Quantity (Open Containers) |
|--------------|---|----------------------------|
| 3.1C         | 500 L in containers more than 5 L             | 250 L                      |
| 3.1C         | 1 500 L in containers up to and including 5 L | 250 L                      |

#### **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<br>(L) | Solid<br>(kg) | Maximum quantity per package for each<br>classification |
|--------------|--------------------------------------|---------------|---------------|---|
| 3.1C or 3.1D |                                      |               |               | 10 L  |

# **Tracking Requirements**

Not Applicable

#### **National Inventory Status**

| National Inventory                                 | Status   |  |  |
|--|--|--|--|
| Australia - AIIC / Australia<br>Non-Industrial Use | Yes  |  |  |
| Canada - DSL                                       | Yes  |  |  |
| Canada - NDSL                                      | No (xylene; isoparaffins petroleum hydrotreated HFP; ethylbenzene; cumene)   |  |  |
| China - IECSC                                      | Yes  |  |  |
| Europe - EINEC / ELINCS /<br>NLP                   | Yes  |  |  |
| 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<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require<br>registration. |  |  |

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

| Revision Date | 22/12/2021 |
|---------------|------------|
| Initial Date  | 22/12/2021 |

### **SDS Version Summary**

| Version | Date of Update | Sections Updated   |
|---------|----------------|--|
| 2.1     | 22/12/2021     | Acute Health (inhaled), Chronic Health, Fire Fighter (fire/explosion hazard) |

### 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 LOAFL 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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