



## DUNLOP Enhancing Sealer

Ardex (Ardex Australia)

Chemwatch: 61-8652

Version No: 3.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 30/11/2017

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S.GHS.AUS.EN

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

#### Product Identifier

|                               |                           |
|-------------------------------|---------------------------|
| Product name                  | DUNLOP Enhancing Sealer   |
| Synonyms                      | Not Available             |
| Proper shipping name          | RESIN SOLUTION, flammable |
| Other means of identification | Not Available             |

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

|                          |                                                          |
|--------------------------|----------------------------------------------------------|
| Relevant identified uses | Recommended for industrial and/or professional use only. |
|--------------------------|----------------------------------------------------------|

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

|                         |                                               |                                                  |
|-------------------------|-----------------------------------------------|--------------------------------------------------|
| Registered company name | Ardex (Ardex Australia)                       | Ardex (Ardex NZ)                                 |
| Address                 | 20 Powers Road Seven Hills NSW 2147 Australia | 32 Lane Street Woolston Christchurch New Zealand |
| Telephone               | 1800 224 070                                  | +64 3373 6928                                    |
| Fax                     | 1300 780 102                                  | +64 3384 9779                                    |
| Website                 | Not Available                                 | Not Available                                    |
| Email                   | Not Available                                 | Not Available                                    |

#### Emergency telephone number

|                                   |                                 |               |
|-----------------------------------|---------------------------------|---------------|
| Association / Organisation        | Not Available                   | Not Available |
| Emergency telephone numbers       | 1800 224 070 (Mon-Fri, 9am-5pm) | +64 3373 6900 |
| Other emergency telephone numbers | Not Available                   | Not Available |

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

**HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.**

#### CHEMWATCH HAZARD RATINGS

|              | Min | Max |
|--------------|-----|-----|
| Flammability | 2   | 4   |
| Toxicity     | 2   | 4   |
| Body Contact | 2   | 4   |
| Reactivity   | 1   | 2   |
| Chronic      | 2   | 4   |

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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poisons Schedule              | S6                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Classification <sup>[1]</sup> | Flammable Liquid Category 3, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Carcinogenicity Category 2, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Specific target organ toxicity - single exposure Category 3 (narcotic effects), Specific target organ toxicity - repeated exposure Category 2, Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3 |
| Legend:                       | 1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI                                                                                                                                                                                                                                                                                                                                                    |

#### Label elements

Continued...

## DUNLOP Enhancing Sealer

Hazard pictogram(s)



SIGNAL WORD

WARNING

## Hazard statement(s)

|      |                                                                    |
|------|--------------------------------------------------------------------|
| H226 | Flammable liquid and vapour.                                       |
| H332 | Harmful if inhaled.                                                |
| H315 | Causes skin irritation.                                            |
| H319 | Causes serious eye irritation.                                     |
| H351 | Suspected of causing cancer.                                       |
| H335 | May cause respiratory irritation.                                  |
| H336 | May cause drowsiness or dizziness.                                 |
| 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/sparks/open flames/hot surfaces. - No smoking. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.                   |
| P271 | Use only outdoors or in a well-ventilated area.                    |

## Precautionary statement(s) Response

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P308+P313      | IF exposed or concerned: Get medical advice/attention.                                                                           |
| P362           | Take off contaminated clothing and wash before reuse.                                                                            |
| P370+P378      | In case of fire: Use alcohol resistant foam or normal protein foam for extinction.                                               |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

## 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 in accordance with local regulations. |
|------|---------------------------------------------------------------------|

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## Substances

See section below for composition of Mixtures

## Mixtures

| CAS No        | %[weight] | Name                                             |
|---------------|-----------|--------------------------------------------------|
| 1330-20-7     | 30-<60    | <u>xylene</u>                                    |
| 64742-95-6.   | 10-<25    | <u>naphtha petroleum, light aromatic solvent</u> |
| 100-41-4      | 10-<20    | <u>ethylbenzene</u>                              |
| Not Available | <50       | Ingredients determined not to be hazardous       |

## SECTION 4 FIRST AID MEASURES

## Description of first aid measures

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <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 | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>                                                                                                                                                                                                                                                 |
| Inhalation   | <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> </ul>                        |

Continued...

## DUNLOP Enhancing Sealer

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <ul style="list-style-type: none"> <li>Transport to hospital, or doctor.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Ingestion | <ul style="list-style-type: none"> <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 <b>NOT</b> 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> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> </ul> |

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

For acute or short term repeated exposures to xylene:

- Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO<sub>2</sub> < 50 mm Hg or pCO<sub>2</sub> > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.

## BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

| Determinant                    | Index                | Sampling Time       | Comments |
|--------------------------------|----------------------|---------------------|----------|
| Methylhippu-ric acids in urine | 1.5 gm/gm creatinine | End of shift        |          |
|                                | 2 mg/min             | Last 4 hrs of shift |          |

## SECTION 5 FIREFIGHTING MEASURES

## Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

Do not use water jets.

## Special hazards arising from the substrate or mixture

|                      |                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Incompatibility | <ul style="list-style-type: none"> <li>Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul> |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Advice for firefighters

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Fighting         | <ul style="list-style-type: none"> <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 style="list-style-type: none"> <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> </ul> <p>Combustion products include:</p> <ul style="list-style-type: none"> <li>carbon dioxide (CO<sub>2</sub>)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul> <p>May emit clouds of acrid smoke</p> |
| HAZCHEM               | *3Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## 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 style="list-style-type: none"> <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 style="list-style-type: none"> <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> |

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

## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling     | <ul style="list-style-type: none"> <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><b>DO NOT allow clothing wet with material to stay in contact with skin</b></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 (<math>\leq 1</math> m/sec until fill pipe submerged to twice its diameter, then <math>\leq 7</math> m/sec).</li> <li>Avoid splash filling.</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 style="list-style-type: none"> <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><b>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</b></li> <li>No smoking, naked lights, heat or ignition sources.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Conditions for safe storage, including any incompatibilities

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable container      | <ul style="list-style-type: none"> <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 | <ul style="list-style-type: none"> <li>Avoid reaction with oxidising agents</li> <li>Avoid strong acids, bases.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

| Source                       | Ingredient   | Material name               | TWA                             | STEL                            | Peak          | Notes         |
|------------------------------|--------------|-----------------------------|---------------------------------|---------------------------------|---------------|---------------|
| Australia Exposure Standards | xylene       | Xylene (o-, m-, p- isomers) | 350 mg/m <sup>3</sup> / 80 ppm  | 655 mg/m <sup>3</sup> / 150 ppm | Not Available | Not Available |
| Australia Exposure Standards | ethylbenzene | Ethyl benzene               | 434 mg/m <sup>3</sup> / 100 ppm | 543 mg/m <sup>3</sup> / 125 ppm | Not Available | Not Available |

## EMERGENCY LIMITS

| Ingredient   | Material name | TEEL-1        | TEEL-2        | TEEL-3        |
|--------------|---------------|---------------|---------------|---------------|
| xylene       | Xylenes       | Not Available | Not Available | Not Available |
| ethylbenzene | Ethyl benzene | Not Available | Not Available | Not Available |

| Ingredient                                 | Original IDLH | Revised IDLH  |
|--------------------------------------------|---------------|---------------|
| xylene                                     | 900 ppm       | Not Available |
| naphtha petroleum, light aromatic solvent  | Not Available | Not Available |
| ethylbenzene                               | 800 [LEL] ppm | Not Available |
| Ingredients determined not to be hazardous | Not Available | Not Available |

## Exposure controls

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | <p><b>CARE:</b> 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</p> <p>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.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>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.</p> |
| Personal protection              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Eye and face protection          | <ul style="list-style-type: none"> <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin protection</b>       | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Hands/feet protection</b> | <ul style="list-style-type: none"> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul> <p>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.</p> <p>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.</p> <p>Personal hygiene is a key element of effective hand care.</p>                                                                                 |
| <b>Body protection</b>       | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Other protection</b>      | <ul style="list-style-type: none"> <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 made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot and shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds.</li> </ul> |
| <b>Thermal hazards</b>       | Not Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## 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:

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

\* 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 Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 10 x ES                      | A-AUS / Class 1      | -                    | A-PAPR-AUS / Class 1   |
| up to 50 x ES                      | Air-line*            | -                    | -                      |
| up to 100 x ES                     | -                    | A-3                  | -                      |
| 100+ x ES                          | -                    | Air-line**           | -                      |

\* - Continuous-flow; \*\* - Continuous-flow or positive pressure demand

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)

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.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

|                                                     |                                                                                                   |                                                |                |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------|----------------|
| <b>Appearance</b>                                   | Clear viscous flammable liquid with aromatic petroleum distillate odour; does not mix with water. |                                                |                |
| <b>Physical state</b>                               | Liquid                                                                                            | <b>Relative density (Water = 1)</b>            | 0.91           |
| <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>          | *465 (solvent) |
| <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>                         | 60             |
| <b>Initial boiling point and boiling range (°C)</b> | 137-143                                                                                           | <b>Molecular weight (g/mol)</b>                | Not Applicable |

Continued...

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|                           |                     |                                  |                |
|---------------------------|---------------------|----------------------------------|----------------|
| Flash point (°C)          | *27 (TCC) (solvent) | Taste                            | Not Available  |
| Evaporation rate          | 0.7                 | Explosive properties             | Not Available  |
| Flammability              | Flammable.          | Oxidising properties             | Not Available  |
| Upper Explosive Limit (%) | 7.7                 | Surface Tension (dyn/cm or mN/m) | Not Available  |
| Lower Explosive Limit (%) | 1.1                 | Volatile Component (%vol)        | Not Available  |
| Vapour pressure (kPa)     | *5.2 @40C (solvent) | Gas group                        | Not Available  |
| Solubility in water (g/L) | Immiscible          | pH as a solution (1%)            | Not Applicable |
| Vapour density (Air = 1)  | *3.7 (solvent)      | VOC g/L                          | Not Available  |

## SECTION 10 STABILITY AND REACTIVITY

|                                    |                                                                                                                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | See section 7                                                                                                                                                                                  |
| Chemical stability                 | <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> |
| Possibility of hazardous reactions | See section 7                                                                                                                                                                                  |
| Conditions to avoid                | See section 7                                                                                                                                                                                  |
| Incompatible materials             | See section 7                                                                                                                                                                                  |
| Hazardous decomposition products   | See section 5                                                                                                                                                                                  |

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhaled      | <p>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.</p> <p>The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.</p> <p>Inhalation hazard is increased at higher temperatures.</p> <p>Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.</p> <p>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.</p> <p>Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.</p> |
| Ingestion    | The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Skin Contact | <p>Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.</p> <p>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.</p> <p>Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p>                                                                                                                                                                                                                                                                                                                                     |
| Eye          | <p>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.</p> <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Chronic      | <p>There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment.</p> <p>Harmful: danger of serious damage to health by prolonged exposure through inhalation.</p> <p>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.</p> <p>Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.</p> <p>Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]</p>                                                                                                                                                                                                                                                                                                                                                                      |

| DUNLOP Enhancing Sealer | TOXICITY                                                     | IRRITATION                        |
|-------------------------|--------------------------------------------------------------|-----------------------------------|
|                         | Dermal (None) LD50: 2572 mg/kg <sup>[2]</sup>                | Not Available                     |
|                         | Inhalation (None) LC50: 2.80 mg/l(dust/mist)* <sup>[2]</sup> |                                   |
|                         | Inhalation (None) LC50: 21 mg/l(vapour)* <sup>[2]</sup>      |                                   |
|                         | Oral (None) LD50: 32729 mg/kg <sup>[2]</sup>                 |                                   |
| xylene                  | TOXICITY                                                     | IRRITATION                        |
|                         | Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>             | Eye (human): 200 ppm irritant     |
|                         | Inhalation (rat) LC50: 4994.295 mg/l/4h <sup>[2]</sup>       | Eye (rabbit): 5 mg/24h SEVERE     |
|                         | Oral (rat) LD50: 4300 mg/kg <sup>[2]</sup>                   | Eye (rabbit): 87 mg mild          |
|                         |                                                              | Skin (rabbit):500 mg/24h moderate |

## DUNLOP Enhancing Sealer

| naphtha petroleum, light aromatic solvent | TOXICITY                                                  | IRRITATION                    |
|-------------------------------------------|-----------------------------------------------------------|-------------------------------|
|                                           | Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>          | Not Available                 |
|                                           | Inhalation (rat) LC50: >7331.62506 mg/l/8h <sup>[2]</sup> |                               |
| ethylbenzene                              | Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>               |                               |
|                                           | TOXICITY                                                  | IRRITATION                    |
|                                           | Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup>          | Eye (rabbit): 500 mg - SEVERE |
|                                           | Inhalation (mouse) LC50: 17.75 mg/l/2H <sup>[2]</sup>     | Skin (rabbit): 15 mg/24h mild |
|                                           | Oral (rat) LD50: 3500 mg/kg <sup>[2]</sup>                |                               |

**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

| NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT | For trimethylbenzenes:<br>Absorption of 1,2,4-trimethylbenzene occurs after exposure by swallowing, inhalation, or skin contact. In the workplace, inhalation and skin contact are the most important routes of absorption; whole-body toxic effects from skin absorption are unlikely to occur as the skin irritation caused by the chemical generally leads to quick removal. The substance is fat-soluble and may accumulate in fatty tissues. It is also bound to red blood cells in the bloodstream.<br>For C9 aromatics (typically trimethylbenzenes – TMBs)<br>Acute toxicity: Animal testing shows that semi-lethal concentrations and doses vary amongst this group. The semilethal concentrations for inhalation range from 6000 to 10000 mg/cubic metre for C9 aromatic naphtha and 18000-24000 mg/cubic metre for 1,2,4- and 1,3,5-TMB, respectively.<br>Irritation and sensitization: Results from animal testing indicate that C9 aromatic hydrocarbon solvents are mildly to moderately irritating to the skin, minimally irritating to the eye, and have the potential to irritate the airway and cause depression of breathing rate. There is no evidence that it sensitizes skin.<br>Inhalation (rat) TCLo: 1320 ppm/6h/90D-I * [Devoe] |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           | The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.<br>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.<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><b>NOTE:</b> 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.<br><br><b>WARNING:</b> This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.<br>Liver changes, uterine tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded.                                                           |

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ✓ | Carcinogenicity          | ✓ |
| Skin Irritation/Corrosion         | ✓ | Reproductivity           | ⊖ |
| Serious Eye Damage/Irritation     | ✓ | STOT - Single Exposure   | ✓ |
| Respiratory or Skin sensitisation | ⊖ | STOT - Repeated Exposure | ✓ |
| Mutagenicity                      | ⊖ | Aspiration Hazard        | ⊖ |

**Legend:** ✗ – Data available but does not fill the criteria for classification  
 ✓ – Data available to make classification  
 ⊖ – Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

| DUNLOP Enhancing Sealer                   | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|-------------------------------------------|---------------|--------------------|-------------------------------|---------------|---------------|
|                                           | Not Available | Not Available      | Not Available                 | Not Available | Not Available |
| xylene                                    | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                                           | LC50          | 96                 | Fish                          | 2.6mg/L       | 2             |
|                                           | EC50          | 48                 | Crustacea                     | >3.4mg/L      | 2             |
|                                           | EC50          | 72                 | Algae or other aquatic plants | 4.6mg/L       | 2             |
|                                           | NOEC          | 73                 | Algae or other aquatic plants | 0.44mg/L      | 2             |
| naphtha petroleum, light aromatic solvent | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                                           | EC50          | 48                 | Crustacea                     | =6.14mg/L     | 1             |
|                                           | EC50          | 72                 | Algae or other aquatic plants | 3.29mg/L      | 1             |
|                                           | EC10          | 72                 | Algae or other aquatic plants | 1.13mg/L      | 1             |
|                                           | NOEC          | 72                 | Algae or other aquatic plants | =1mg/L        | 1             |
| ethylbenzene                              | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                                           | LC50          | 96                 | Fish                          | 0.0043mg/L    | 4             |

Continued...

## DUNLOP Enhancing Sealer

|      |     |                               |           |   |
|------|-----|-------------------------------|-----------|---|
| EC50 | 48  | Crustacea                     | 1.184mg/L | 4 |
| EC50 | 96  | Algae or other aquatic plants | 3.6mg/L   | 4 |
| NOEC | 168 | Crustacea                     | 0.96mg/L  | 5 |

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

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) |

## Bioaccumulative potential

| Ingredient   | Bioaccumulation    |
|--------------|--------------------|
| xylene       | MEDIUM (BCF = 740) |
| ethylbenzene | LOW (BCF = 79.43)  |

## Mobility in soil

| Ingredient   | Mobility          |
|--------------|-------------------|
| ethylbenzene | LOW (KOC = 517.8) |

## SECTION 13 DISPOSAL CONSIDERATIONS

## Waste treatment methods

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product / Packaging disposal | <ul style="list-style-type: none"> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> </ul> <p>Otherwise:</p> <ul style="list-style-type: none"> <li>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.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li><b>DO NOT allow wash water from cleaning or process equipment to enter drains.</b></li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible.</li> <li>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.</li> <li>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).</li> <li>Decontaminate empty containers.</li> </ul> |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 14 TRANSPORT INFORMATION

## Labels Required

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

## Land transport (ADG)

|                              |                                                                                                                    |                    |     |                  |                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------|-----|------------------|----------------|
| UN number                    | 1866                                                                                                               |                    |     |                  |                |
| UN proper shipping name      | RESIN SOLUTION, flammable                                                                                          |                    |     |                  |                |
| Transport hazard class(es)   | <table> <tr> <td>Class</td><td>3</td></tr> <tr> <td>Subrisk</td><td>Not Applicable</td></tr> </table>              | Class              | 3   | Subrisk          | Not Applicable |
| Class                        | 3                                                                                                                  |                    |     |                  |                |
| Subrisk                      | Not Applicable                                                                                                     |                    |     |                  |                |
| Packing group                | III                                                                                                                |                    |     |                  |                |
| Environmental hazard         | Not Applicable                                                                                                     |                    |     |                  |                |
| Special precautions for user | <table> <tr> <td>Special provisions</td><td>223</td></tr> <tr> <td>Limited quantity</td><td>5 L</td></tr> </table> | Special provisions | 223 | Limited quantity | 5 L            |
| Special provisions           | 223                                                                                                                |                    |     |                  |                |
| Limited quantity             | 5 L                                                                                                                |                    |     |                  |                |

## DUNLOP Enhancing Sealer

## Air transport (ICAO-IATA / DGR)

|                              |                                                           |                |  |
|------------------------------|-----------------------------------------------------------|----------------|--|
| UN number                    | 1866                                                      |                |  |
| UN proper shipping name      | Resin solution flammable                                  |                |  |
| Transport hazard class(es)   | ICAO/IATA Class                                           | 3              |  |
|                              | ICAO / IATA Subrisk                                       | Not Applicable |  |
|                              | ERG Code                                                  | 3L             |  |
| Packing group                | III                                                       |                |  |
| Environmental hazard         | Not Applicable                                            |                |  |
| Special precautions for user | Special provisions                                        | A3             |  |
|                              | Cargo Only Packing Instructions                           | 366            |  |
|                              | Cargo Only Maximum Qty / Pack                             | 220 L          |  |
|                              | Passenger and Cargo Packing Instructions                  | 355            |  |
|                              | 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                    | 1866                     |                |  |
| UN proper shipping name      | RESIN SOLUTION flammable |                |  |
| Transport hazard class(es)   | IMDG Class               | 3              |  |
|                              | IMDG Subrisk             | Not Applicable |  |
| Packing group                | III                      |                |  |
| Environmental hazard         | Not Applicable           |                |  |
| Special precautions for user | EMS Number               | F-E , S-E      |  |
|                              | Special provisions       | 223 955        |  |
|                              | Limited Quantities       | 5 L            |  |

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

Not Applicable

## SECTION 15 REGULATORY INFORMATION

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

## XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

|                                                                        |                                                                                               |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Australia Exposure Standards                                           | Australia Inventory of Chemical Substances (AICS)                                             |
| Australia Hazardous Substances Information System - Consolidated Lists | International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs |

## NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT(64742-95-6.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

|                                                                        |                                                   |
|------------------------------------------------------------------------|---------------------------------------------------|
| Australia Hazardous Substances Information System - Consolidated Lists | Australia Inventory of Chemical Substances (AICS) |
|------------------------------------------------------------------------|---------------------------------------------------|

## ETHYLBENZENE(100-41-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

|                                                                        |                                                                                               |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Australia Exposure Standards                                           | Australia Inventory of Chemical Substances (AICS)                                             |
| Australia Hazardous Substances Information System - Consolidated Lists | International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs |

| National Inventory            | Status                                                                                                                                                                                   |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Australia - AICS              | Y                                                                                                                                                                                        |
| Canada - DSL                  | Y                                                                                                                                                                                        |
| Canada - NDSL                 | N (xylene; naphtha petroleum, light aromatic solvent; ethylbenzene)                                                                                                                      |
| China - IECSC                 | Y                                                                                                                                                                                        |
| Europe - EINEC / ELINCS / NLP | Y                                                                                                                                                                                        |
| Japan - ENCS                  | Y                                                                                                                                                                                        |
| Korea - KECI                  | Y                                                                                                                                                                                        |
| New Zealand - NZIoC           | Y                                                                                                                                                                                        |
| Philippines - PICCS           | Y                                                                                                                                                                                        |
| USA - TSCA                    | Y                                                                                                                                                                                        |
| Legend:                       | Y = All ingredients are on the inventory<br>N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

## SECTION 16 OTHER INFORMATION

Continued...

**DUNLOP Enhancing Sealer****Other information****Ingredients with multiple cas numbers**

| Name                                      | CAS No                   |
|-------------------------------------------|--------------------------|
| naphtha petroleum, light aromatic solvent | 64742-95-6., 25550-14-5. |

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

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

**Definitions and abbreviations**

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

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