









## 1 SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE SUPPLIER

Product Name: TPO Membrane Cleaner  
 Uses: Cleaning Solvent  
 Supplier: Nuralite Waterproofing Ltd  
 60D Leon Leicester Avenue  
 Mt Wellington  
 Auckland 1060  
 New Zealand.  
 Telephone: +64 9 579 2046  
 Web: www.nuralite.co.nz  
 Emergency Telephone: 027 5350899 (General Manager) – 24 hrs  
 National Poisons Centre Tel: 0800 POISON (0800 764766) – 24 hrs

## 2. HAZARDS IDENTIFICATION

Hazardous Status: Classified as hazardous according to the criteria of HSNO.  
 DG Status: Classified as Dangerous Goods according to NZS5433

| Hazard Classifications                   | Hazard Statements   | GHS Pictogram   |
|--|---|---|
| Flammable liquids, Cat 3                 | H226 Flammable liquid and vapour.   |    |
| Acute toxicity: Oral, Cat 4              | H302 Harmful if swallowed.  |   |
| Acute toxicity: Dermal, Cat 4            | H312 Harmful in contact with skin.  |  |
| Skin corrosion/irritation, Cat 2         | H315 Causes skin irritation   |  |
| Serious eye damage/irritation, Cat 2A/2B | H319 Causes serious eye irritation  |  |
| Carcinogenicity, Cat 2                   | H351 Suspected of causing cancer.   |  |
| Reproductive toxicity, Cat 2             | H361 Suspected of damaging fertility or the unborn child.                 |  |
| STOT-RE, Cat 2                           | H373 May cause damage to organs through prolonged or repeated inhalation. |  |

Signal Word: DANGER

## PREVENTION STATEMENTS

- P102 Keep out of reach of children.
- P103 Read label before use.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe mist/vapours/spray
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### RESPONSE STATEMENTS

P370 + P378 In case of fire: Use foam, carbon dioxide or dry chemical powder for extinction.  
 P101 If medical advice is needed, have product container or label at hand.  
 P308 + P313 IF exposed or concerned: Get medical advice/attention.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P330 Rinse mouth.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P362 Take off contaminated clothing and wash before reuse.  
 P332 + P313 If skin irritation occurs: Get medical advice/attention.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.

#### STORAGE STATEMENTS

P403 + P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.

#### DISPOSAL STATEMENTS

P501 Do not let this product enter the environment. Do not dispose of in waterways or sewers. Dispose of this material and its container as hazardous waste, via a licensed facility. See local council for disposal/recycling information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Entity   | CAS Number | Proportion %w/w |
|---|------------|-----------------|
| Xylene (mixed isomers)  | 1330-20-7  | >60             |
| Ethyl Benzene   | 100-41-4   | 10-30           |
| Toluene   | 108-88-3   | 0.1 -<1         |
| Other ingredients: Non-hazardous or below the hazardous threshold – to 100% |            |                 |

### 4. FIRST AID MEASURES

Swallowed If swallowed do NOT induce vomiting. Give water to drink. Get medical attention if symptoms occur.  
 Inhaled If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Obtain medical attention if symptoms occur.  
 Eye Contact If splashed in the eyes, wash out immediately with water. Obtain medical attention if irritation occurs.  
 Skin Contact If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Get medical attention if symptoms occur.  
 Further Information For advice contact the National Poisons Centre – 0800 POISON (0800 764 766) – or a doctor, immediately.

### 5. FIRE-FIGHTING MEASURES.

Suitable extinguishing media In case of fire, use water spray (fog), sand, dry chemical or CO<sub>2</sub>.  
 Unsuitable extinguishing media High volume water jet.  
 Hazards from the substance In a fire or if heated, a pressure increase will occur and the container may burst.  
 Hazardous combustion products Decomposition products may include:  
 Carbon oxides, Nitrogen oxides, Other noxious substances.  
 Special precautions for fire-fighters Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES.

|                           |  |
|---------------------------|--|
| Personal precautions      | Wear appropriate Personal Protective Equipment (see section 8). Provide adequate ventilation.  |
| Environmental precautions | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |
| Spill                     | Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).<br>Keep in suitable, closed containers for disposal. |

### 7. HANDLING AND STORAGE.

|          |  |
|----------|--|
| Handling | Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition. Avoid formation of aerosol. Do not breathe vapours. Avoid exposure obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. |
| Storage  | No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.   |





### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

| Product/Ingredient    | WES/TWA                      | WES/STEL                     | Reference |
|-----------------------|------------------------------|------------------------------|-----------|
| Xylene(mixed isomers) | 50ppm, 217mg/m <sup>3</sup>  | -                            | NZ-WES    |
| Ethyl Benzene         | 100ppm, 434mg/m <sup>3</sup> | 125ppm, 543mg/m <sup>3</sup> | NZ-WES    |
| Toluene               | 50ppm, 108mg/m <sup>3</sup>  | -                            | NZ-WES    |

#### ENGINEERING CONTROLS

General ventilation and local exhaust should be suitable to keep vapour concentrations below WES/TWA. Ventilation equipment should be explosionproof when operating in flammable zones

#### PERSONAL PROTECTION

|             |   |   |   |   |   |
|-------------|---|---|---|---|---|
| Respiratory | Wear a vapour respirator.   |  |  |  |  |
| Eyes        | Wear chemical goggles/face pr   |   |   |   |   |
| Hands       | Wear chemical gloves – PVC, P   |   |   |   |   |
| Other       | Wear overalls or dust coat. Use PVC apron when handling large quantities. |   |   |   |   |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

| PROPERTY       | SPECIFICATION |
|----------------|---------------|
| Physical state | Liquid        |
| Colour         | Colourless    |
| Odour          | Aromatic      |
| pH             | No data       |
| Boiling Pt     | ~136°C        |

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|                      |  |
|----------------------|--|
| Melting Pt           | No data                                      |
| Flash                | Pt 26°C                                      |
| Explosive properties | Vapours may form explosive mixtures with air |
| Vapour pressure      | No data                                      |
| Density              | No data                                      |
| Water Solubility     | Insoluble                                    |
| Viscosity, dynamic   | 0.59 mPa.s                                   |
| Ignition temperature | No data                                      |

### 10. STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Stability                          | The product is stable  |
| Possibility of hazardous reactions | Vapours may form explosive mixtures with air.  |
| Conditions to avoid                | Heat, flames and sparks.   |
| Incompatible materials             | Strond oxidizing agents.   |
| Hazardous decomposition products   | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

### 11. TOXICOLOGICAL INFORMATION

Original data sourced from CCID – mixture rules applied

|                                   |   |
|-----------------------------------|---|
| Acute Oral Toxicity               | Harmful if swallowed.   |
| Acute Dermal Toxicity             | Harmful in contact with skin.   |
| Acute Inhalation Toxicity         | Not Classified  |
| Acute Aspiration Toxicity         | Not Classified  |
| Skin Irritancy/Corrosion          | Causes skin irritation.   |
| Eye Irritancy/Corrosion           | Causes serious eye irritation.  |
| Respiratory Sensitisation         | Not Classified  |
| Skin Sensitisation                | Not Classified  |
| Mutagenic                         | Not Classified  |
| Carcinogenic                      | Suspected of causing cancer.  |
| Reproductive/Development Toxicity | Suspected of damaging fertility or the unborn child.                              |
| STOT-SE                           | Not Classified  |
| STOT-RE                           | May cause damage to organs through prolonged or repeated ingestion or inhalation. |

#### Toxicity Data

|                                 |             |
|---------------------------------|-------------|
| Product Acute Toxicity Estimate |             |
| ORAL LD50                       | >2000 mg/kg |
| DERMAL LD50                     | >2000 mg/kg |
| INHALATION LC50 (vapours)       | >20 mg/L/4H |

| Ingredient:   | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 mg/L/4H |
|---------------|-----------------|-------------------|-------------------------|
| Toluene       | 636 -Rat        | -                 | 636 -Rat                |
| Xylene        | 1590 -Mouse     | 1100              | 27.6 -Vap -Rat          |
| Ethyl Benzene | 3500 -Rat       | -                 | 9.6 -Vap -Rat           |

### 12. ECOLOGICAL INFORMATION

This product is not classified as Ecotoxic according to the criteria of HSNO.

#### Ecotoxicity Data - CCID

|                    |   |
|--------------------|---|
| Product/Ingredient | Species                                     |
|                    | FISH  |
| Xylene             | TYPE OF EXPOSURE: Static<br>DURATION: 96 hr |

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|               |  |
|---------------|--|
| Ethyl Benzene | ENDPOINT: LC50 (Mortality)<br>VALUE: 3300ug/l (= 3.3 mg/l)<br>SPECIES: Oncorhynchus mykiss (Fish, fresh water)<br>TYPE OF EXPOSURE: Static<br>DURATION: 96 hr<br>ENDPOINT: LC50<br>VALUE: 4.2 mg/l |
| Toluene       | SPECIES: Oncorhynchus mykiss Rainbow trout, donaldson trout<br>TYPE OF EXPOSURE:<br>DURATION: 96 hr<br>ENDPOINT: LC50 (Mortality)<br>VALUE: 5.8 mg/l   |
|               | CRUSTACEAN   |
| Xylene        | SPECIES: Palaemonetes pugio (Crustacea)<br>TYPE OF EXPOSURE:<br>DURATION: 48 hr<br>ENDPOINT: LC50<br>VALUE: 8500ug/l (= 8.5mg/l)   |
| Ethyl Benzene | SPECIES: Daphnia magna (Crustacea)<br>TYPE OF EXPOSURE:<br>DURATION: 48 hr<br>ENDPOINT: EC50<br>VALUE: 2.1 mg/   |
| Toluene       | ACUTE<br>SPECIES: Daphnia magna (Crustacea)<br>TYPE OF EXPOSURE:<br>DURATION: 48 hr<br>ENDPOINT: EC50<br>VALUE: 11.5 mg/   |
|               | CHRONIC<br>SPECIES: Daphnia magna<br>TYPE OF EXPOSURE:<br>DURATION: 21 day<br>ENDPOINT: NOEC<br>VALUE: 1 mg/l  |
|               | ALGAL  |
| Xylene        | SPECIES: Skeletonema costatum (Algae)<br>TYPE OF EXPOSURE:<br>DURATION: 72 hr<br>ENDPOINT: LC50<br>VALUE: 10000 µg/l (= 10mg/l)  |
| Ethyl Benzene | SPECIES: Selenastrum capricornutum (Algae)<br>TYPE OF EXPOSURE:<br>DURATION: 72 hr<br>ENDPOINT: EC50<br>VALUE: 4.6 mg/   |
| Toluene       | SPECIES: Selenastrum capricornutum<br>TYPE OF EXPOSURE:<br>DURATION: 3 day (72 hr)<br>ENDPOINT: EC50 (Growth)<br>VALUE: 12.500mg/  |

#### Persistence & Degradability

Xylene: Rapidly degradable

Ethyl Benzene: Rapidly degradable

Toluene: Rapidly biodegradable

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## Mobility

Xylene: No data  
Ethyl Benzene: No data  
Toluene: No data

## Bioaccumulative Potential

Xylene: Not bioaccumulative  
Ethyl Benzene: Not bioaccumulative  
Toluene: Not bioaccumulative

## 13. DISPOSAL CONSIDERATION

Do not let this product enter the environment. Do not dispose of in waterways or sewers. Dispose of this material and its container as hazardous waste, via a licensed facility. See local council for disposal/recycling information.

## 14. TRANSPORTATION INFORMATION

Regulated for transport: Keep separated from foodstuffs  
UN Number: 1993  
Proper Shipping Name: FLAMMABLE LIQUID, NOS (Xylenes, Ethyl Benzene)  
Class: 3  
Packing Group: III  
Hazchem: 3Y  
Marine Pollutant: NO



## 15. REGULATORY INFORMATION

Group Standard: HSR002669  
Surface Coatings & Colorants –Flammable, Carcinogenic

## HSNO CONTROLS

SDS required when any quantity is present in a workplace.

At least 2 x 4.5kg powder fire extinguishers required when >500L is present in a workplace.

Emergency Response Plan and Secondary Containment required when >1000L is present in a workplace.

Flammable signage required when >1000L is stored.

Toxic signage required when >10,000L is stored.

(Class 3.1C/Flammable Liquid, Cat3) Hazardous Substances Location Compliance Certificate required for:

- >500L (closed containers >5L)
- >1500L (closed containers up to 5L)
- >250L (open containers)

(Class 3.1B, 3.1C/Flammable Liquid, Cat 2/3) Hazardous Atmosphere Zone required for:

- >100L (closed containers)
- >25L (decanting)
- >5L (open occasionally)
- >1L (open containers in continuous use)

Certified Handler Not Required  
Tracking Not Required

This material is not subject to the following agreements:

- Montreal Protocol (Ozone Depleting Substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)

All ingredients are on the New Zealand Inventory of Chemicals (NZIoC), or exempt.

Any existing national regulations on the handling of dangerous substances should be observed.

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Controls for hazardous substances are based upon current knowledge. Where multiple chemicals are stored, controls will need to take into account aggregate quantities. Contact a WorkSafe approved Compliance Certifier for further information and guidance.

#### 16. OTHER INFORMATION

HSNO = Hazardous Substances and New Organisms Act.  
EPA = Environmental Protection Authority  
CCID = Chemical Classification and Information Database (EPA)  
NZ WES = New Zealand Work Exposure Standard  
TWA = Time Weighted Average  
STEL = Short Term Exposure Limit

Date of SDS Preparation: 7 June 2021

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