









Date of issue: 7.06.21

NZ Safety Data Sheet

1. Identification of the Substance/Mixture and Supplier.

| | |
|------------------------------|---|
| Product Name: | JM 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 ingestion or inhalation. |  |

Signal Word: WARNING

PREVENTION STATEMENTS

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|------|---|
| 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. |

Date of issue: 7.06.21

NZ Safety Data Sheet

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

RESPONSE STATEMENTS

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| 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

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

DISPOSAL STATEMENTS

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| 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 |

4. First Aid Measures.

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| 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.

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| Suitable extinguishing media | In case of fire, use water spray (fog), foam, dry chemical or CO2. |
| 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. |
| 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.

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| Personal precautions | Wear appropriate Personal Protective Equipment (see section 8). Provide adequate ventilation. Remove all sources of ignition. |
| 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, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). |

7. Handling and Storage.





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| 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

| Exposure Standards | | | |
|---------------------------|------------------|------------------|------------------|
| Product/Ingredient | WES/TWA | WES/STEL | Reference |
| Xylene (mixed isomers) | 50ppm, 217mg/m3 | - | NZ-WES |
| Ethyl Benzene | 100ppm, 434mg/m3 | 125ppm, 543mg/m3 | NZ-WES |
| Toluene | 50ppm, 108mg/m3 | - | NZ-WES |

Date of issue: 7.06.21

NZ Safety Data Sheet

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| Engineering Controls | General ventilation and local exhaust should be suitable to keep vapour concentrations below WES/TWA. Ventilation equipment should be explosion-proof when operating in flammable zones. |
| Personal Protection |     |
| Respiratory | Wear a vapour respirator. |
| Eyes | Wear chemical goggles/face protection. |
| Hands | Wear chemical gloves – PVC, Polychloroprene or Nitrile. |
| 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 |
| 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

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

11. Toxicological Information

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|---|--------------------------------|
| 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. |

Date of issue: 7.06.21

NZ Safety Data Sheet

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| 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

>300 - ≤2000 mg/kg

DERMAL LD50

>1000 - ≤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 | - | 12.5 – Vap - 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

| Ingredient | Species |
|-------------------|---|
| | FISH |
| Xylene | TYPE OF EXPOSURE: Static DURATION: 96 hr ENDPOINT: LC50 (Mortality) VALUE: 3300ug/l (= 3.3 mg/l) |
| Ethyl Benzene | SPECIES: Oncorhynchus mykiss (Fish, fresh water) TYPE OF EXPOSURE: Static DURATION: 96 hr ENDPOINT: LC50 VALUE: 4.2 mg/l |
| Toluene | SPECIES: Oncorhynchus mykiss Rainbow trout, donaldson trout TYPE OF EXPOSURE: DURATION: 96 hr ENDPOINT: LC50 (Mortality) VALUE: 5.8 mg/l |
| | CRUSTACEAN |
| Xylene | SPECIES: Palaemonetes pugio (Crustacea) TYPE OF EXPOSURE: DURATION: 48 hr ENDPOINT: LC50 VALUE: 8500ug/l (= 8.5mg/l) |
| Ethyl Benzene | SPECIES: Daphnia magna (Crustacea) TYPE OF EXPOSURE: DURATION: 48 hr ENDPOINT: EC50 VALUE: 2.1 mg/ |

Date of issue: 7.06.21

NZ Safety Data Sheet

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| Toluene | <p>ACUTE SPECIES: Daphnia magna (Crustacea) TYPE OF EXPOSURE: DURATION: 48 hr ENDPOINT: EC50 VALUE: 11.5 mg/</p> <p>CHRONIC SPECIES: Daphnia magna TYPE OF EXPOSURE: DURATION: 21 day ENDPOINT: NOEC VALUE: 1 mg/l</p> |
| | ALGAL |
| Xylene | <p>SPECIES: Skeletonema costatum (Algae) TYPE OF EXPOSURE: DURATION: 72 hr ENDPOINT: LC50 VALUE: 10000 µg/l (= 10mg/l</p> |
| Ethyl Benzene | <p>SPECIES: Selenastrum capricornutum (Algae) TYPE OF EXPOSURE: DURATION: 72 hr ENDPOINT: EC50 VALUE: 4.6 mg/</p> |
| Toluene | <p>SPECIES: Selenastrum capricornutum TYPE OF EXPOSURE: DURATION: 3 day (72 hr) ENDPOINT: EC50 (Growth) VALUE: 12.500mg/</p> |
| Persistence & Degradability | <p>Xylene: Rapidly degradable</p> <p>Ethyl Benzene: Rapidly degradable</p> <p>Toluene: Rapidly biodegradable</p> |
| Mobility | <p>Xylene: No data</p> <p>Ethyl Benzene: No data</p> <p>Toluene: No data</p> |
| Bioaccumulative Potential | <p>Xylene: Not bioaccumulative</p> <p>Ethyl Benzene: Not bioaccumulative</p> <p>Toluene: Not bioaccumulative</p> |
| 13. Disposal Considerations. | |
| 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 |

Date of issue: 7.06.21

NZ Safety Data Sheet

Marine Pollutant:

No



15. Regulatory Information.

Group Standard:

HSR002669

HSNO Approval Number:

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, Cat 3) 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.

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

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.