









## 1 SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE SUPPLIER

Product Name: Membrane Bonding Adhesive (TPO & EPDM)  
 Uses: Adhesive  
 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 2	H225 Highly flammable liquid and vapour.	
Acute toxicity: Oral, Cat 4	H302 Harmful if swallowed.	
Aspiration hazard, Cat 1	H304 May be fatal if swallowed and enters airways.	
Skin corrosion/irritation, Cat 2	H315 Causes skin irritation.	
Serious eye damage/irritation, Cat 2A/2B	H319 Causes serious eye irritation.	
Reproductive toxicity, Cat 2	H361 Suspected of damaging fertility or the unborn child.	
STOT-RE, Cat 1	H372 Causes damage to organs through prolonged or repeated inhalation.	
Aquatic toxicity (Chronic), Cat 2	H411 Toxic to aquatic life with long lasting effects.	

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.

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- P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 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.  
 P314 Get medical advice/attention if you feel unwell.  
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P331 Do NOT induce vomiting.  
 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.  
 P391 Collect spillage

#### 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
toluene	108-88-3	30-60
n-hexane	110-54-3	10-30
acetone	67-64-1	10-30
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.

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Hazardous combustion products	Decomposition products may include: Carbon oxides, Nitrogen oxides, Hydrogen chloride gas.
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.

Personal precautions	Wear appropriate Personal Protective Equipment (see section 8). Provide adequate ventilation. Remove ignition sources.
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).

### 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). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Avoid formation of aerosol. Do not breathe vapours/dust. 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	Keep container dry and tightly closed, in a cool, well-ventilated area, away from direct sunlight.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Product/Ingredient	WES/TWA	WES/STEL	Reference
Toluene	50ppm, 108mg/m <sup>3</sup>	-	NZ-WES
n-Hexane	20ppm, 72mg/m <sup>3</sup>	-	NZ-WES
Acetone	500ppm, 1185mg/m <sup>3</sup>	1000ppm, 2375mg/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 protection.				
Hands	Wear chemical gloves – PVC, Polychlorpropene or Nitrile.				
Other	Wear overalls or dust coat. Use PVC apron when handling large quantities.				

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	SPECIFICATION
Physical state	Liquid
Colour	Yellow
Odour	Aromatic
pH	No data
Boiling Pt	>35°C
Melting Pt	No data
Flash Pt	-18°C
Explosive properties	No data
Vapour pressure	No data
Density	0.86 g/m:
Solubility	No data
Viscosity, dynamic	900 - 4,000 mPa.s
Ignition temperature	No data

## 10. STABILITY AND REACTIVITY

Stability	The product is stable
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides under fire conditions.

## 11. TOXICOLOGICAL INFORMATION

Original data sourced from CCID – mixture rules applied

Acute Oral Toxicity	Harmful if swallowed.
Acute Dermal Toxicity	Not Classified
Acute Inhalation Toxicity	Not Classified
Acute Aspiration Toxicity	May be fatal if swallowed and enters airways.
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	Not Classified
Reproductive/Development Toxicity	Suspected of damaging fertility or the unborn child.
STOT-SE	Not Classified
STOT-RE	H372 Causes damage to organs through prolonged or repeated inhalation.

## Toxicity Data

Product Acute Toxicity Estimate	
ORAL LD50	>300 - ≤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	-	12.5 – Vap - Rat
Acetone	3000 – Mouse	-	-

## 12. ECOLOGICAL INFORMATION

This product is classified as Ecotoxic according to the criteria of HSNO.  
Toxic to aquatic life with long lasting effects.

## Ecotoxicity Data - CCID

Product Calculated Aquatic Ecotoxicity – L(E)C50 >1 - ≤10 mg/L:

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Product/Ingredient	Species
	FISH
Toluene	SPECIES: Oncorhynchus mykiss, Rainbow trout, donaldson trout TYPE OF EXPOSURE: DURATION: 96 hr ENDPOINT: LC50 (Mortality) VALUE: 5.8 mg/l
n-Hexane	SPECIES: Pimephales promelas Fathead minnow TYPE OF EXPOSURE: DURATION: 4 days (96 hr) ENDPOINT: LC50 (Mortality) VALUE: 2.50 mg/L
	CRUSTACEAN
Toluene	ACUTE SPECIES: Daphnia magna (Crustacea) TYPE OF EXPOSURE: DURATION: 48 hr ENDPOINT: EC50 VALUE: 11.5 mg/l CHRONIC SPECIES: Daphnia magna TYPE OF EXPOSURE: DURATION: 21 day ENDPOINT: NOEC VALUE: 1 mg/l
n-Hexane	SPECIES: Daphnia magna Water flea TYPE OF EXPOSURE: DURATION: 48 hr ENDPOINT: EC50 (Intoxication) VALUE: 45, 30 - 66 mmol/m <sup>3</sup>
	ALGAL
Toluene	SPECIES: Selenastrum capricornutum TYPE OF EXPOSURE: DURATION: 3 day (72 hr) ENDPOINT: EC50 (Growth) VALUE: 12.500mg/L
Persistence & Degradability	
Toluene:	Rapidly degradable
n-Hexane:	No data
Mobility	No data
Bioaccumulative Potential	
Toluene:	Not bioaccumulative
n-Hexane:	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

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UN Number: 1133  
 Proper Shipping Name: ADHESIVES  
 Class: 3  
 Packing Group: II  
 Hazchem: 3YE  
 Marine Pollutant: Yes

Land/Sea/Air



EHSM also required for Sea/Air



### 15. REGULATORY INFORMATION

Group Standard: HSR002662  
 Surface Coatings & Colorants - Flammable

#### HSNO CONTROLS

SDS required when any quantity is present in a workplace.

At least 2 x 4.5kg powder fire extinguishers required when >250L is present in a workplace.

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

Flammable signage required when >250L is stored.

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

Ecotoxic signage required when >1000L is stored.

(Class 3.1B /Flammable Liquid, Cat 2) Hazardous Substances Location Compliance Certificate required for:

>100L (closed containers >5L)

>250L (closed containers up to 5L)

>50L (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.

### 6. 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: 4 June 2021

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