






1 SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE SUPPLIER

Product Name: TPO 1168 Membrane Adhesive
 Uses: Membrane 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.	
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 2	H373 May cause damage to organs through prolonged or repeated inhalation.	

Signal Word: DANGER

PREVENTION STATEMENTS

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.
 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.
 P308 + P313 IF exposed or concerned: Get medical advice/attention.
 P314 Get medical advice/attention if you feel unwell.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P332 + P313 If skin irritation occurs: Get medical advice/attention.
 P362 Take off contaminated clothing and wash before reuse.

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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

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

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
benzene, 1-chloro-4-(trifluoromethyl)-	98-56-6	60-80
toluene	108-88-3	1-10
methyl acetate	79-20-9	1-10
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 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, Fluorine compounds.
 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.
 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

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according to local / national regulations (see section 13).
 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). 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 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
Toluene	50ppm, 108mg/m3	-	NZ-WES
Methyl Acetate	200ppm, 606mg/m3	250ppm, 757mg/m3	NZ-WES

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, Polychlorpropene, Butyl rubber 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	Yellow
Odour	Characteristic
pH	No data
Boiling Pt	>35°C
Melting Pt	No data
Flash Pt	-10°C
Explosive properties	No data
Vapour pressure	No data
Density	1.24 g/mL
Water Solubility	Insoluble
Viscosity, dynamic	2,000 - 5,000 mPa.s
Ignition temperature	No data

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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	Contact with ignition sources.
Incompatible materials	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	Not Classified
Acute Dermal Toxicity	Not Classified
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	Not Classified
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 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	-	12.5 – Vap - Rat
Methyl Acetate	3705 - Rabbit	-	-

12. ECOLOGICAL INFORMATION

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

Ecotoxicity Data - CCID

Product/Ingredient	Species
Toluene	FISH
	SPECIES: Oncorhynchus mykiss Rainbow trout,donaldson trout
	TYPE OF EXPOSURE:
	DURATION: 96 hr
	ENDPOINT: LC50 (Mortality)
	VALUE: 5.8 mg/
	CRUSTACEAN
	ACUTE
	SPECIES: Daphnia magna (Crustacea)
	TYPE OF EXPOSURE:
	DURATION: 48 hr
	ENDPOINT: EC50
	VALUE: 11.5 mg

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ALGAL

SPECIES: Selenastrum capricornutum

TYPE OF EXPOSURE:

DURATION: 3 day (72 hr)

ENDPOINT: EC50 (Growth)

VALUE: 12.500mg/L

Toluene	
Persistence & Degradability	Rapidly biodegradable
Mobility	No data
Bioaccumulative Potential	Not bioaccumulative
Other	No data

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:	1133
Proper Shipping Name:	ADHESIVES containing flammable liquid
Class:	3
Packing Group:	II
Hazchem:	3YE
Marine Pollutant:	NO



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.

(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)

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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
OSHA =	Occupational Safety & Health Administration (USA)

Date of SDS Preparation: 31 May 2021

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