



NURABOND LOW FOAMING PU ADHESIVE

MATERIAL SAFETY DATA SHEET

COMPANY DETAILS

Company	Nuralite Waterproofing Ltd
Address	53a Victoria Street, Onehunga, Auckland
Telephone	09 579 2046
Facsimile	09 579 5136
Email	info@nuralite.co.nz

IDENTIFICATION

Product Name	Nurabond Low Foaming PU Adhesive
UN Number	1133
Use/Applications	Adhesive
Hazchem Code	Not Applicable
NZ Dangerous Good Class	Not Applicable

PHYSICAL DATA

State	Liquid
Relative Density	1.1
Solubility in Water	Reacts with water
Evaporation Rate	Fast
Oxidising	Non-oxidising (by EC criteria)
Viscosity	Viscous
Appearance	Clear becomes milky in colour

COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients	DICHLOROMETHANE 10-30% EINECS: 200-838-9 CAS: 75-09-2 [Xn] R40
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REACTIVITY DATA

Stability	Stable under normal conditions
Conditions to avoid	Heat, Hot surfaces, Flames
Materials to avoid	Strong Oxidizers. Strong acids

Hazardous decomposition

In combustion emits toxic fumes

HEALTH HAZARD DATA

HEALTH EFFECTS

Ingestion	There may be irritation of the throat. There may be shortness of breath due to congestion of the lungs
Inhalation	Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath
Skin Contact	There may be mild irritation at the site of contact
Eye Contact	There may be irritation and redness

FIRST AID

Eye Contact	Bathe the eye with running water for 15 minutes
Skin Contact	Remove from skin with paper or towel. Wash affected area thoroughly with soap and water. Seek medical advice if symptoms persist
Ingestion	Wash out mouth with water. Consult doctor.
Inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing OK, place into the recovery position. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.
Main hazards	Limited evidence of a carcinogenic effect. May cause sensitization by inhalation.

SAFE HANDLING INFORMATION

FIRE- FIGHTING MEASURES

Extinguishing media	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
Exposure hazards	In combustion emits toxic fumes.
Protection of fire-fighters	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

ACCIDENTAL RELEASE MEASURE

Personal precautions	If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out
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Environmental Precautions	the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes or gas. Contain the spillage using bunding.
Clean-up procedures	Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

HANDLING AND STORAGE

Handling requirements	Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air.
Storage conditions	Store in cool, well ventilated area. Keep container tightly closed.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure limits	WEL (8 hr TWA): 0.02mg/m ³ WEL (15 min STEL): 0.07mg/m ³
Hazardous ingredients	DICHLOROMETHANE WEL (8 hr TWA): 350 mg/m ³ WEL (15 min STEL): 1060 mg/m ³
Engineering measures	Ensure there is exhaust ventilation of the area
Respiratory protection	If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used
Hand protection	Impermeable gloves. Avoid skin contact. For repeated exposure use Viton or 4H chemical gloves
Eye protection	Safety glasses. Ensure eye bath is to hand
Skin protection	Protective clothing

TOXICOLOGICAL INFORMATION

Hazardous ingredients	DICHLOROMETHANE ORL MUS LD50 4770 mg/kg ORL RAT LD50 5350 mg/kg SCU MUS LD50 6460 mg/kg
Chronic toxicity	Danger of very serious irreversible effects through inhalation.
Routes of exposure	Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

ECOLOGICAL INFORMATION

Mobility	Volatile
Persistence and degradability	Biodegradable in part only
Bioaccumulative potential	No data available

DISPOSAL CONSIDERATIONS

Disposal operations	Arrange for disposal by a licenced waste disposal company
Disposal of packaging	Arrange for disposal by a licenced waste disposal company

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

TRANSPORT INFORMATION

ADR/RID

UN no: 2810 ADR	Class: 6.1
Packing group: III	Classification code: T1
Shipping name: TOXIC LIQUID, ORGANIC, N.O.S.	
Labelling: 6.1	Hazard ID no: 60

IMDG/IMO

UN no: 2810	Class: 6.1
Packing group: III	EmS: F-A,S-A
Marine pollutant: no	Labelling: 6.1

IATA/ICAO

UN no: 2810	Class: 6.1
Packing group: III	
Packing instructions: 611(P&CA); 618(CAO)	
Labelling: 6.1	

REGULATORY INFORMATION

Hazard symbols: Harmful

Risk phrases:

R40: Limited evidence of a carcinogenic effect.

R42: May cause sensitisation by inhalation.

Safety phrases:

S2: Keep out of the reach of children.

S23: Do not breathe fumes.

S24/25: Avoid contact with skin and eyes.

S36/37: Wear suitable protective clothing and gloves.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.

S29/35: Do not empty into drains; dispose of this material and its container in a safe way.

Precautionary phrases: Contains isocyanates. See information supplied by the manufacturer.

Haz. ingredients (label): DIPHENYLMETHANE-4,4'-DI-ISOCYANATE;
DICHLOROMETHANE

Note:

The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

OTHER INFORMATION

Risk phrases used in section 2: R40: Limited evidence of a carcinogenic effect.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product. This data sheet does not constitute an assessment of workplace risk.



NURABOND TPE CONTACT ADHESIVE

MATERIAL SAFETY DATA SHEET

COMPANY DETAILS

Company	Nuralite Waterproofing Ltd
Address	53a Victoria Street, Onehunga, Auckland
Telephone	09 579 2046
Facsimile	09 579 5136
Email	info@nuralite.co.nz

IDENTIFICATION

Name :	Nurabond TPE Contact Adhesive
Type of product :	Contact adhesive
Recommended Use:	This product is a solvent based, contact adhesive in an unpressurized metal drum for use in membrane roofing.

HAZARD STATEMENT:

Classified as Hazardous according to HSNO in New Zealand.

Classified as a Dangerous Good according to NZS5433:1999 Transport of Dangerous Goods on Land.

PHYSICAL DATA

Appearance	Metal drum containing yellow liquid
Odour	Solvent,
Flash Point °C	-23
Boiling Point °C	+60
Lower & Upper Flammability Limits %	1.2 – 7.7 approx
Solids % by weight	27 approx
Solubility in Water	Very low

High = > 60% Medium = 10% to 60% Low = 1% to 10% Very Low = <1%

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Proportion	Classification
Hexane	110-54-3	Medium	F;FN; XN;R11, R38, R48/20, R51/53, R62, R65, R67
Toluene	108-88-3	Medium	R11- Highly flammable. R20- Harmful by inhalation. S16- Keep away from sources of ignition - No smoking. S25- Avoid contact with eyes. S29- Do not empty into drains. S33- Take precautionary measures against static discharges
Propanone	67-64-1	low	R11 R36 R66 R67
Non-hazardous ingredients		balance	

High = >60%

Medium = 10% - 60%

Low = 1% - 10%

Very Low = < 1%

STABILITY AND REACTIVITY DATA

Stability of Substance	This material is thermally stable when stored and used as directed.
Conditions to Avoid	Avoid heat, sparks, flames and any other sources of ignition.
Incompatible Materials	Strong oxidising agents. Strong acids
Hazardous Decomposition Products	Thermal decomposition is highly dependant on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide, hydrogen cyanide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.
Hazardous Reactions	Will react with strong oxidising agents.

TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects	Product may be an irritant to mucous membranes and respiratory tract. May cause headaches, dizziness and nausea. Repeated use may cause sensitization
Inhalation	
Skin Contact	Acts as a defatting agent. Prolonged contact with skin may result in irritation. Repeated contact may lead to eczema.
Eye Contact	A moderate eye irritant.
Ingestion	Swallowing can result in nausea and vomiting.
Long Term Effects	No information available.

ECOLOGICAL INFORMATIONS

Avoid contaminating waterways.

Ecotoxicity	Toxic to aquatic life. Not ecotoxic in the soil environment, to terrestrial invertebrates or terrestrial vertebrate. However, contamination of the aquatic or terrestrial environments should be avoided.
Persistence and degradability	The product is expected to biodegrade slowly.
Mobility	Slightly soluble in water. Will float on water.

DISPOSAL CONSIDERATIONS

Substance Disposal	Dispose of in an authorised landfill, preferably after allowing drying to a solid mass. Do not dispose of down drains or into local waterways.
Container Disposal	Once canister is empty disable by piercing a hole with a non-sparking punch through the safety plug. Allow any residue to dry out. Canister is then considered non-hazardous and a metal waste. Recycle if possible, or dispose of in an authorised landfill. Do not re-use for adhesive.
Local Legislation	Disposal should be in accordance with applicable regional and national laws and regulations.

TRANSPORT INFORMATION

Land Transport

Classified as Dangerous Goods by the criteria of NZS 5433:1999 Transport of Dangerous Goods on Land for transport by road or rail.

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. Marine pollutant.

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN Number 1133

Proper Shipping Name: Adhesives containing flammable liquid

DG Classification: 3

Air Class 3

Subsidiary Risk Not applicable

Packing Group : II

HAZCHEM Code 3[Y]E

REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Environmental Risk Management Authority (ERMA) Group Standard Number:

Adhesives, Highly Flammable

Hazardous Substances and New Organisms Act (HSNO):

The following are trigger quantities for this substance by itself in a place.

Approved Handler Test Certificate 250 litres, when in containers > 5 litres

500 litres, when in containers ≤ 5 litres

Tracking Not applicable

Risk Phrases in full:

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments.

EU Hazard Symbol and Indication of Danger

Xn Harmful

F Highly flammable

R phrases

R12 Extremely flammable. R36 Irritating to eyes. R38 Irritating to skin.

R51/53 Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

S phrases

S9 Keep container in a well ventilated place. S16 Keep away from sources of ignition. No smoking.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S33 Take precautionary measures against static discharges. S36/37 Wear suitable protective clothing and gloves. S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

HAZARDS IDENTIFICATION

Note: This product contains both volatile (solvents) and non-volatile components. During the normal use of this product, the hazardous volatile components evaporate and dissipate. The remaining non-volatile component is not hazardous

Hazard Statement DANGER Highly flammable liquid and vapour .

Precautions Keep away from ignition sources such as heat, sparks and open flames.

Do not handle until safety precautions have been read and understood.

HSNO Classifications

3.1B Highly flammable liquid and vapour

6.1E Harmful if swallowed

6.3B Causes mild skin irritation

6.4A Causes severe eye irritation

6.9B May cause damage to organs through repeat or prolonged exposure

9.1B Toxic to aquatic life

HEALTH HAZARD DATA

FIRST AID

If poisoning occurs, contact the National Poison Centre (New Zealand 0800 POISON or 0800 764 766).

Inhalation	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult
Skin Contact	Remove contaminated clothing and wash skin with warm soapy water. Do not scrub. If swelling, redness, blistering or irritation occurs, get medical assistance.
Eye Contact	Hold open and flood with water for at least 15 minutes. Get medical advice.
Ingestion	Rinse mouth with water. Do not induce vomiting, give a glass of water to dilute and get medical advice. If vomiting occurs give further water.
Advice to Physician	Treat symptomatically.

HANDLING AND STORAGE INFORMATION

Handling	<p>Avoid breathing of or contact with material. Use only in well ventilated areas.</p> <p>Keep away from heat, sparks, open flames and any other sources of ignition.</p> <p>Static electricity must be avoided. Wear the appropriate personal protection equipment as specified in this SDS to prevent eye and skin contact. Wash thoroughly after handling.</p>
Storage	Store in a cool, dry, well ventilated place and out of direct sunlight. Keep away from heat, sparks, open flames and any other sources of ignition. Static electricity must be avoided. Store away from any incompatible materials as defined in Section 10 of this SDS. Keep containers closed when not in use. Check regularly for leaks

EXPOSURE CONTROLS / PERSONAL PROTECTION EQUIPMENT

Workplace Exposure Guidelines Substance	WES-TWA 8hrs	WES-STEL
Hexane	50 ppm	1100 ppm
Propanone	250 ppm	750 ppm
Toluene	200 ppm	500 ppm
Engineering Controls	Use in a well ventilated area only. Keep containers in a well ventilated area. Explosion proof general and local exhaust ventilation system is required.	
Personal Protection Equipment	Avoid fume inhalation. Wear organic vapour respirator if general level exceeds Recommended Workplace Exposure limits, especially if working in a poorly ventilated area. Selection of the correct cartridge is essential. Avoid skin contact. Avoid repeated and prolonged skin contact. Wear overalls or similar protective clothing. Wear solvent resistant gloves, and enclosed footwear. Avoid eye contact. Wear safety glasses, goggles or appropriate face shield.	

WORK PRACTICE CONTROLS:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this product: 1) Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this product is stored or used, 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet, 3) Wash exposed skin promptly to remove accidental splashes or other contact with this product.

FIRE & EXPLOSION DATA

FIRE FIGHTING MEASURES

Type of Hazard	Flammable Liquid
HAZCHEM Code	3[Y]E
Fire Hazard Properties	Toxic gases / vapours / fumes of carbon

dioxide (CO₂), carbon monoxide (CO). Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along ground to sources of ignition

Extinguishing Media

Water fog, foam, dry chemical, carbon dioxide

Unsuitable Extinguishing Media

Do not use a water jet

Precautions for Firefighters

Wear full protective equipment, including self contained breathing apparatus.

Additional Advice

Containers may explode when in a fire. Keep adjacent containers cool by spraying with water

ACCIDENTAL RELEASE MEASURES

Small Spills (< 20 litre) Wear protective equipment to prevent skin and eye contamination. Extinguish all ignition sources. Avoid sparks, flames and heat and presence of static. Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with non flammable absorbent (sand, vermiculite). Ventilate and let solvents evaporate. Collect residue and seal in properly labelled containers or drums for disposal or recycling. If leakage cannot be stopped evacuate area and call emergency services.

Larger Spills (> 20 litre) Extinguish all ignition sources. If leakage cannot be stopped evacuate area and call emergency services. Avoid sparks, flames, heat and the build up of static electricity. Consider evacuation of area and/or site. Alert Emergency Services if required. Slippery when spilt. Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination.

Avoid inhalation of vapours by wearing appropriate respirator. Contain spill to prevent run off into drains and waterways. Use absorbent (rags, soil, sand, or other inert material). Ventilate and let solvents evaporate. Collect using spark-free shovels (ie. plastic) and seal in properly labelled containers or drums for disposal or recycling. See Disposal section of this SDS for further details.