





1 SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE SUPPLIER

Product Name: All Season Sprayable Bonding Adhesive
 Uses: Spraying 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 gases, Cat 1	H220 Extremely flammable gas	
Skin corrosion/irritation, Cat 2	H315 Causes skin irritation	
Serious eye damage/irritation, Cat 2A/2B	H319 Causes serious eye irritation	
Aquatic toxicity (Chronic), Cat 2	H411 Toxic to aquatic life with long lasting effects.	

Signal Word: DANGER

PREVENTION STATEMENTS

P103 Read label before use.
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P264 Wash thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE STATEMENTS

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P381 Eliminate all ignition sources if safe to do so.
 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.
 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.
 P391 Collect spillage.

STORAGE STATEMENTS

P403 Store in a well-ventilated place.

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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
methyl acetate	79-20-9	>= 10 - <30
cyclohexane	110-82-7	>= 10 - <30
acetone; 2-propanone	67-64-1	>= 7 - <13
pentane	109-66-0	>= 5 - <10
petroleum gases, liquefied	68476-85-7	>= 3 - <7
carbon dioxide	124-38-9	>= 3 - <7
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 ₂ .
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, 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.
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). Keep in suitable, closed containers for disposal.

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7. HANDLING AND STORAGE.

Handling	<p>Keep away from sources of ignition - No smoking. Use only in area provided with appropriate exhaust ventilation.</p> <p>For personal protection see section 8.</p> <p>Smoking, eating and drinking should be prohibited in the application area.</p> <p>Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.</p> <p>Keep away from fire, sparks and heated surfaces. Do not use sparking tools.</p> <p>Use only with adequate ventilation.</p>
Storage	<p>BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C.</p> <p>Do not open by force or throw into fire even after use.</p> <p>Do not spray on flames or red-hot objects. Keep in a dry, cool and well-ventilated place</p>



8. EXPOSURE CONTROL/PERSONAL PROTECTION

Product/Ingredient	WES/TWA	WES/STEL	Reference
Methyl Acetate	200ppm, 606mg/m ³	250ppm, 757mg/m ³	NZ-WES
Cyclohexane	100ppm, 350mg/m ³	300ppm, 1050mg/m ³	NZ-WES
Acetone	500ppm, 1185mg/m ³	1000ppm, 2375mg/m ³	NZ-WES
Pentane	600ppm, 1770mg/m ³	750ppm, 2120mg/m ³	NZ-WES
LPG	1000ppm, 1800mg/m ³	-	-
Carbon Dioxide	5000ppm, 9000mg/m ³	30,000ppm, 54,000mg/m ³	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, 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 (dispensed as aerosol)
Colour	Green
Odour	Hydrocarbon-like
pH	No data
Boiling Pt	36°C
Melting Pt	No data
Flash Pt	-35°C
Flammability (solid, gas)	Extremely flammable (dispensed as aerosol)
Explosive properties	LEL: 1.2%(v), UEL: 16%(v)
Vapour pressure	233 hPa (20°C)
Density	0.856 g/m: (20°C)
Solubility	Immiscible with water
Viscosity	No data
Auto Ignition temperature	260°C

10. STABILITY AND REACTIVITY

Stability	The product is stable
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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	Oxidizing agents, Acids and bases, Metals, halogenated compounds
Hazardous decomposition products	Under fire conditions: carbon oxides, nitrogen oxides, Hydrogen chloride gas, Aldehydes, Hydrocarbons, acids

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 (contents may be fatal if swallowed and enter airways, but unlikely to occur when stored in a pressure vessel)
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	Not Classified
STOT-SE	Not Classified
STOT-RE	Not Classified

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
Methyl Acetate	3705 - Rabbit	-	-
Acetone	3000 – Mouse	-	-
Cyclohexane	813 – Mouse	-	13.9 – Vap - Rat

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:

Product/Ingredient	Species
	FISH
Cyclohexane	SPECIES: Morone saxatilis (Striped bass) TYPE OF EXPOSURE: Static DURATION: 4 day (96 hr) ENDPOINT: LC50 (Mortality) VALUE: 8300 ug/l (= 8.3 mg/l)
	CRUSTACEAN
Cyclohexane	SPECIES: Daphnia magna (Crustacea) TYPE OF EXPOSURE: DURATION: 48 hr ENDPOINT: EC50 (IM) VALUE: 3.78 mg/l

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Pentane SPECIES: Daphnia magna (Crustacea)
 TYPE OF EXPOSURE:
 DURATION: 48 hr
 ENDPOINT: EC50
 VALUE: 9.74 mg/l

Persistence & Degradability

Cyclohexane Not rapidly degradable
 Pentane Rapidly degradable

Mobility No data

Bioaccumulative Potential

Cyclohexane Not bioaccumulative
 Pentane 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: 3501
 Proper Shipping Name: CHEMICAL UNDER PRESSURE, FLAMMABLE, NOS (Methyl acetate, Pentanes)
 Class: 2.1
 Packing Group: N/A
 Hazchem: 2YE
 Marine Pollutant: Yes

Land/Sea/Air



EHS also required for Sea/Air



15. REGULATORY INFORMATION

Group Standard: HSR002532
 Gas Under Pressure Mixtures - Flammable

HSNO CONTROLS

SDS required when any quantity is present in a workplace.

At least 2 x 4.5kg powder fire extinguishers required when >50kg is present in a workplace.

Emergency Response Plan and Secondary Containment required when >300kg is present in a workplace

Flammable signage required when >250kg is stored.

Ecotoxic signage required when >1000kg is stored.

(Flammable gas, Cat 1) Hazardous Substances Location Compliance Certificate required for: >100kg

(Flammable gas, Cat 1) Hazardous Atmosphere Zone required for: >100kg

Certified Handler: Not Required

Tracking: Not Required

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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: 2 June 2021

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