Date of issue: 22.06.20 NZ Safety Data Sheet

1. Identification of the Substance/Mixture and Supplier.

Product Name:	EVERGUARD TPO QUICK SPRAY ADHESIVE
Uses:	Adhesive for laminate
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
HSNO	GHS Equivalent		
2.1.1A	Flammable gases, Cat 1	H220 Extremely flammable gas.	
N/A	Compressed gases	H280 Contains gas under pressure; may explode if heated.	
N/A	Simple asphyxiant	H380 May displace oxygen and cause rapid suffocation.	
6.1E (aspiration)	Aspiration hazard, Cat 1	H304 May be fatal if swallowed and enters airways.	
6.3A	Skin corrosion/irritation, Cat 2	H315 Causes skin irritation.	
6.4A	Serious eye damage/irritation, Cat 2A	H319 Causes serious eye irritation.	
6.8B	Reproductive toxicity, Cat 2	H361 Suspected of damaging fertility or the unborn child.	
6.9B (single exposure)	STOT-SE, Cat 3	H336 May cause drowsiness or dizziness.	
6.9B (repeat exposure)	STOT-RE, Cat 2	H373 May cause damage to organs through prolonged or repeated exposure.	

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.
P260	Do not breathe gas/mist/vapours/spray.
P264	Wash thoroughly after handling.

P271	Use only outdoors or in a well-ventilated area
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.
P101	If medical advice is needed, have product container or label at hand.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
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.
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.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
STORAGE STATEMENTS	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
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.

Name	Product identifier	%
Acetone	(CAS No) 67-64-1	10 - 30
Petroleum gases, liquefied, sweetened	(CAS No) 68476-86-8	10 - 30
Propane	(CAS No) 74-98-6	7 - 13
Isobutane	(CAS No) 75-28-5	7 - 13
Dimethyl ether	(CAS No) 115-10-6	5 - 10
Distillates, petroleum, light distillate hydrotreating process, low-boiling	(CAS No) 68410-97-9	1 - 5
Cyclohexane	(CAS No) 110-82-7	1 - 5
Pentane	(CAS No) 109-66-0	1 - 5
Isopentane	(CAS No) 78-78-4	1 - 5
Toluene	(CAS No) 108-88-3	1 - 5
Hexane	(CAS No) 110-54-3	0.1 - 1
Naphtha, petroleum, hydrotreated light	(CAS No) 64742-49-0	0.1 - 1

4. First Aid Measures.

Swallowed	IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control centre or medical professional. Get medical attention immediately.

Inhaled	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.
Eye Contact	IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
Skin Contact	IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
Further Information	If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person For advice contact the National Poisons Centre – 0800 POISON (0800 764 766) – or a doctor, immediately.

5. Fire-Fighting Measures.

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water Fog
Unsuitable extinguishing media	High volume water jet.
Hazards from the substance	Fire hazard: Extremely flammable gas. Explosion hazard: Static discharge may serve as an ignition source for this product. Pressurized container: may burst if heated. Reactivity: No dangerous reactions known under normal conditions of use.
Special precautions for fire-fighters	Firefighting instructions: Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and products of combustion. Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Other information: Vapours may travel long distances along ground before igniting/flashing back to vapor source. This material is flammable and may be ignited by heat, sparks, or static electricity.
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	Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8). Avoid vapor formation. In case of spills, beware of slippery floors and surfaces. Eliminate all sources of ignition. Vapour may cause flash fires. Vapours are heavier than air and can travel long distances to 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 any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Remove all sources of ignition. Avoid breathing of vapours. Wear appropriate respirator and other protective clothing. Ventilate. Shut off source of leak only if safe to do so. Soak up with absorbent material, and place in non-leaking containers for proper disposal.

7. Handling and Storage.

Handling	Keep away from heat, sparks and open flames. Use adequate ventilation and avoid repeated or prolonged skin contact. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Ground/bond container and receiving equipment. Prohibit smoking in storage area. Avoid contact with skin and eyes
Storage	Store in a well-ventilated place. Keep container tightly closed. Isolate from oxidizers, heat, sparks, electrical equipment and open flame. Closed containers may explode if exposed to extreme heat. Store in a cool dry place. Prohibit smoking in storage area.

8. Exposure Control/Personal Protection

Exposure Standards

Product/Ingredient	**WES/TWA**	**WES/STEL**	**Reference**
Cyclohexane	100ppm, 350mg/m3	300ppm, 1050mg/m3	NZ-WES
Isopentane	600 ppm	-	ACGIH
Pentane	600ppm, 1770mg/m3	750ppm, 2120mg/m3	NZ-WES
Hexane	20ppm, 72mg/m3		NZ-WES
Toluene	50ppm, 108mg/m3	-	NZ-WES
Isobutane	-	1000ppm	ACGIH
Propane	1000ppm	1800ppm	OSHA
Dimethyl Ether	400 ppm, 766 mg/m3	500 ppm, 958 mg/m3	NZ-WES
Acetone	500ppm, 1185mg/m3	1000ppm, 2375mg/m3	NZ-WES

Engineering Controls	Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.
Personal Protection	
Respiratory	Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with gas filter (type A2). Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
Eyes	Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.
Hands	Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Rubber or Neoprene Gloves
Other	Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

9. Physical and Chemical Properties

PROPERTY	SPECIFICATION
Physical state	Liquid
Colour	Liquid adhesive in pressurized canister.
Odour	Solvent.
pH	No data
Boiling Pt	No data
Melting Pt	No data
Flash Pt	-104 °C Open Cup
Explosive Limits	1.1 - 27 vol % (1.1% for n-Hexane and Toluene, 27% for Dimethyl Ether)
Vapour pressure	No data
Density	0.67 - 0.69
Water Solubility	Insoluble.
Viscosity	No data
Auto Ignition temperature	225 °C (n-Hexane 437 °F)
VOC content	490 g/l

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, flame. Ignition sources.
Incompatible materials	Copper and copper alloys, strong acids, alkalis and oxidizers.
Hazardous decomposition products	Carbon oxides (CO, CO2). Various hydrocarbons.

11. Toxicological Information

Data sourced from manufacturer (GAF). Mixture rules applied.

Classification:	Aspiration Hazard – 6.1E
Health Effects:	May be fatal if swallowed and enters airways.
Classification:	Skin Corrosion/Irritancy – 6.3A
Health Effects:	Causes skin irritation.
Classification:	Eye Corrosion/Irritancy – 6.4A
Health Effects:	Causes serious eye irritation.
Classification:	Reproductive/Development Toxicant – 6.8B
Health Effects:	Suspected of damaging fertility or the unborn child.
Classification:	STOT-SE, Cat 3 – 6.9B
Health Effects:	May cause drowsiness or dizziness.
Classification:	STOT-RE – 6.9B
Health Effects:	May cause damage to organs through prolonged or repeated exposure.
Acute Oral Toxicity	Not Classified
Acute Dermal Toxicity	Not Classified

Acute Inhalation Toxicity	Not Classified
Respiratory Sensitisation	Not Classified
Skin Sensitisation	Not Classified
Mutagenic	Not Classified
Carcinogenic	Not Classified

Toxicity Data

Product Acute Toxicity Estimate

ORAL LD50 >5000 mg/kg, DERMAL LD50 >5000 mg/kg, INHALATION LC50 (vapours) >20 mg/L/4H

12. Ecological Information

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

Data (GAF):
Toxicity: Data not available
Persistence & Degradability: The product is not biodegradable.
Mobility: Data not available.
Bioaccumulative Potential: Data not available

Product may kill grasses and small plants. Not expected to be toxic to fish. Moderately toxic to amphibians. May cause gastrointestinal distress to birds and mammals through ingestion.

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:	3501
Proper Shipping Name:	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Isobutane, Propane, Dimethyl Ether)
Class:	2.1
Hazchem:	2YE
Marine Pollutant:	No

15. Regulatory Information.

HSNO Classification:	2.1.1A, 6.1E(asp), 6.3A, 6.4A, 6.8B, 6.9B
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.

(Class 2.1.1A) Hazardous Substances Location Compliance Certificate required for:	>100kg

(Class 2.1.1A) Hazardous Atmosphere Zone required for:	>100kg
Certified Handler	Not Required
Tracking	Not Required

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.
NZ WES = New Zealand Work Exposure Standard
TWA = Time Weighted Average
STEL = Short Term Exposure Limit
OSHA = Occupational Safety & Health Administration (USA)
ACGIH = American Conference of Governmental Industrial Hygienists

Date of SDS Preparation: 22 June 2020

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.