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NZ Safety Data Sheet

1. Identification of the Substance/Mixture and Supplier.			
Product Name:	BITUTHENE LIQUID MEMBRANE & DECK PREP PART B		
Uses:	Hardener for specialty construction product		
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: Not classified as Dangerous Goods according to NZS5433			
HAZARD CLASSIFICATIONS		HAZARD STATEMENTS	GHS Pictogram
HSNO	GHS Equivalent		
6.1D (inhalation)	Acute toxicity: Inhalation, Cat 4	H332 Harmful if inhaled.	
6.1E (inhalation)	STOT-SE, Cat 3	H335 May cause respiratory irritation.	
6.3A	Skin corrosion/irritation, Cat 2	H315 Causes skin irritation.	
6.4A	Serious eye damage/irritation, Cat 2A	H319 Causes serious eye irritation.	
6.5A	Respiratory sensitisation, Cat 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
6.5B	Skin sensitisation, Cat 1	H317 May cause an allergic skin reaction.	
6.7B	Carcinogenicity, Cat 2	H351 Suspected of causing cancer.	
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.		
P260	Do not breathe mist/vapours/spray.		
P264	Wash thoroughly after handling.		
P271	Use only outdoors or in a well-ventilated area.		
P272	Contaminated work clothing should not be allowed out of the workplace.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P285	In case of inadequate ventilation wear respiratory protection.		




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RESPONSE STATEMENTS		
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.	
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.	
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
P362	Take off contaminated clothing and wash before reuse.	
P333 + P313	If skin irritation or rash 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.	
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.		
Chemical Entity	CAS Number	Proportion %w/w
Methylenediphenyl diisocyanate, mixture of isomers	26447-40-5	30-50
Diphenylmethane-4,4'-di-isocyanate	101-68-8	30-50
Terphenyl plasticiser, hydrogenated	61788-32-7	10-20
Triethylphosphate	78-40-0	1.0-3.0
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), foam, dry chemical or CO ₂ .	
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 cyanide, Other noxious substances.	

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Special precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Cool endangered receptacles with water spray. 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	Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material (eg sand or vermiculite) and place in an appropriate waste disposal container. Dispose of via a licensed hazardous waste disposal contractor.		
7. Handling and Storage.			
Handling	Wear appropriate PPE, and ensure there is adequate ventilation and extraction in the work area. Avoid skin or eye contact, or breathing in the product. Open and handle receptacle with care. Prevent formation of aerosols.		
Storage	Keep container dry and tightly closed, in a cool, well-ventilated area, away from direct sunlight.		
8. Exposure Control/Personal Protection			
Exposure Standards			
Product/Ingredient			Reference
Isocyanates (as NCO)	0.02 mg/m ³ WES/TWA	0.07 mg/m ³ WES/STEL	NZ-WES
CAS 61788-32-7	Long-term value: 5 mg/m ³ , 0.5 ppm		REL (USA)
	Long-term value: 4.9 mg/m ³ , 0.5 ppm nonirradiated		TLV (USA)
CAS 78-40-0	Long-term value: 7.45 mg/m ³		WEEL (USA)
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 if insufficient ventilation.		
Eyes	Wear chemical goggles/face shield.		
Hands	Wear chemical gloves – PVC, Polychlorpropene 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	According to product specification		
Odour	Characteristic		
pH	No data		



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Boiling Pt	208 °C
Melting Pt	No data
Flash Pt	212 °C
Explosive properties	Product does not present an explosion hazard.
Vapour pressure	No data
Density	No data
Water Solubility	Not miscible, or difficult to mix.
Viscosity	No data
Auto Ignition temperature	Product is not self-igniting.
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	No data
Incompatible materials	No data
Hazardous decomposition products	Carbon monoxide and carbon dioxide, (possible HCN) Other potentially hazardous products may also be formed.
11. Toxicological Information	
Data sourced from manufacturer (GCP) – mixture rules applied:	
Classification:	Acute Inhalation Toxicity – 6.1D
Health Effects:	Harmful if inhaled
Classification:	STOT-SE, Cat 3 – 6.1E
Health Effects:	May cause respiratory irritation
Classification:	Skin Corrosion/Irritancy – 6.3A
Health Effects:	Causes skin irritation.
Classification:	Eye Corrosion/Irritancy – 6.4A
Health Effects:	Causes serious eye irritation.
Classification:	Respiratory Sensitiser – 6.5A
Health Effects:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Classification:	Skin Sensitiser – 6.5B
Health Effects:	May cause an allergic skin reaction
Classification:	Carcinogenic – 6.7B
Health Effects:	Suspected of causing cancer.
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 Aspiration Toxicity	Not Classified
Mutagenic	Not Classified
Reproductive/Development Toxicity	Not Classified



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Acute Toxicity Data			
Product Acute Toxicity Estimate			
ORAL LD50: >5000 mg/kg			
DERMAL LD50: >5000 mg/kg			
INHALATION LC50 (dust/mist) - 6.1D: >1.0 - ≤5.0 mg/L/4H			
Ingredient:	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhal. LC50 mg/L/4H
CAS 101-68-8	>10,000 - Rat	>9400 - Rabbit	0.4 – dust/mist - Rat
12. Ecological Information			
This product is not classified as Ecotoxic according to the criteria of HSNO. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Toxicity: Data not available Persistence & Degradability: Data not available. Mobility: Data not available. Bioaccumulative Potential: Data not available			
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.			
Not regulated for transport. Keep separated from foodstuffs.			
15. Regulatory Information.			
Group Standard:	HSR002679: Surface Coatings & Colorants – Toxic (6.7)		
HSNO CONTROLS			
SDS required when any quantity is present in a workplace.			
Emergency Response Plan and Secondary Containment required when >1000L is present in a workplace			
Toxic signage required when >10,000L is stored.			
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			
Date of SDS Preparation: 6 November 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.