







Date of issue: 4.10.17

NZ Safety Data Sheet

1. Identification of the Substance/Mixture and Supplier.			
Product Name:	Topcoat FlexSeal, Topcoat FlexSeal Roof Sealant, Topcoat FlexSeal LV		
Uses:	Sealant		
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.			
<b>Hazardous Status:</b> Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.			
<b>DG Status:</b> Classified as Dangerous Goods according to NZS5433			
HAZARD CLASSIFICATIONS		HAZARD STATEMENTS	GHS Pictogram
HSNO	GHS Equivalent		
3.1C	Flammable liquids, Cat 3	H226 Flammable liquid and vapour.	
6.1E (oral)	Acute toxicity: Oral, Cat 5	H303 May be harmful if swallowed.	
6.3A	Skin corrosion/irritation, Cat 2	H315 Causes skin irritation.	
6.4A	Serious eye damage/irritation, Cat 2A	H319 Causes serious eye irritation.	
6.7B	Carcinogenicity, Cat 2	H351 Suspected of causing cancer.	
6.8B	Reproductive toxicity, Cat 2	H361 Suspected of damaging fertility or the unborn child.	
6.9B (repeat exposure)	STOT-RE, Cat 2	H373 May cause damage to organs through prolonged or repeated exposure, orally or by inhalation.	
9.1D	Aquatic toxicity (Acute), Cat 2	H401 Toxic to aquatic life.	
Signal Word:		WARNING	
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.		
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.		

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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.	
P101	If medical advice is needed, have product container or label at hand.	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
P362	Take off contaminated clothing and wash before reuse.	
P332 + P313	If skin irritation 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.	
P308 + P313	IF exposed or concerned: Get medical advice/attention.	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.	
P273	Avoid release to the environment.	
STORAGE STATEMENTS		
P403 + P235	Store in a well-ventilated place. Keep cool.	
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.	
<b>3. Composition/Information on Ingredients.</b>		
<u>Chemical Entity</u>	<u>CAS Number</u>	<u>Proportion %w/w</u>
Calcium Carbonate	1317-65-3	30-40
Xylene	1330-20-7	10-20
Polybutene	9003-29-6	2-10
Ethyl Benzene	100-41-4	2-10
Toluene	108-88-3	2-10
Styrene-Alphamethylstyrene Resin	9011-11-4	2-10
Titanium Dioxide	13463-67-7	2-10
Non-hazardous ingredients	-	20-30
<b>4. First Aid Measures.</b>		
<b>Swallowed</b>	If swallowed do NOT induce vomiting. Give water to drink. Get medical attention if symptoms occur.	
<b>Inhaled</b>	If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Obtain medical attention if symptoms occur.	
<b>Eye Contact</b>	If splashed in the eyes, wash out immediately with water. Obtain medical attention if irritation occurs.	
<b>Skin Contact</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Get medical attention if symptoms occur.	
<b>Further Information</b>	For advice contact the National Poisons Centre – 0800 POISON (0800 764 766) – or a doctor, immediately.	
<b>5. Fire-Fighting Measures.</b>		
<b>Suitable extinguishing media</b>	In case of fire, use water spray (fog), foam, dry chemical or CO2.	

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<b>Unsuitable extinguishing media</b>	High volume water jet.		
<b>Hazards from the substance</b>	In a fire or if heated, a pressure increase will occur and the container may burst.		
<b>Hazardous combustion products</b>	Decomposition products may include: Carbon oxides, Other noxious substances.		
<b>Special precautions for fire-fighters</b>	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.		
<b>Special protective equipment for fire fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.		
<b>6. Accidental Release Measures.</b>			
<b>Personal precautions</b>	Wear appropriate Personal Protective Equipment (see section 8). Provide adequate ventilation.		
<b>Environmental precautions</b>	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).		
<b>Small spill</b>	Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.		
<b>Large spill</b>	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.		
<b>7. Handling and Storage.</b>			
<b>Handling</b>	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. Follow precautions listed in section 2 for handling flammable/combustible liquids.		
<b>Storage</b>	Keep container dry and tightly closed, in a cool, well-ventilated area, away from direct sunlight.		
<b>8. Exposure Control/Personal Protection</b>			
<b>Exposure Standards</b>			
<b>Product/Ingredient</b>	<b>WES/TWA</b>	<b>WES/STEL</b>	<b>Reference</b>
Calcium Carbonate	10mg/m <sup>3</sup>	=	NZ-WES
Xylene	50ppm, 217mg/m <sup>3</sup>	-	NZ-WES
Ethyl Benzene	100ppm, 434mg/m <sup>3</sup>	125ppm, 543mg/m <sup>3</sup>	NZ-WES
Toluene	50ppm, 108mg/m <sup>3</sup>	-	NZ-WES
Titanium Dioxide	10mg/m <sup>3</sup>	-	NZ-WES
<b>Engineering Controls</b>	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.		
<b>Personal Protection</b>			
Respiratory	Wear a vapour respirator.		
Eyes	Wear chemical goggles/face protection.		

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Hands	Wear chemical gloves – PVC, Polychlorpropene or Nitrile.
Other	Wear overalls or dust coat. Use PVC apron when handling large quantities.
<b>9. Physical and Chemical Properties</b>	
<b>PROPERTY</b>	<b>SPECIFICATION</b>
Physical state	Paste
Colour	White
Odour	Solvent odour
pH	No data
Boiling Pt	138°C
Melting Pt	No data
Flash Pt	26°C cc
Explosive properties	LEL: 1.1%(v); UEL: 6.6%(v)
Evaporation rate	0.8 (n-Butyl Acetate)
Vapour pressure	6.6 @ 20°C
Vapour density	3.7
Density	1.24 kg/L
Solubility	No data
Viscosity	No data
Ignition temperature	No data
<b>10. Stability and Reactivity</b>	
<b>Stability</b>	The product is stable
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	None known.
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	Carbon monoxide, carbon dioxide.
<b>11. Toxicological Information</b>	
<b>Original data sourced from CCID</b>	
<b>Classification:</b>	Acute Oral Toxicity – 6.1E
<b>Health Effects:</b>	May be harmful if swallowed
<b>Reference:</b>	Determined by applying mixture rules.
<b>Classification:</b>	Skin Corrosion/Irritancy – 6.3A
<b>Health Effects:</b>	Causes skin irritation.
<b>Reference:</b>	Determined by applying mixture rules.
<b>Classification:</b>	Eye Corrosion/Irritancy – 6.4A
<b>Health Effects:</b>	Causes serious eye irritation.
<b>Reference:</b>	Determined by applying mixture rules.
<b>Classification:</b>	Carcinogenic – 6.7B
<b>Health Effects:</b>	Suspected of causing cancer.
<b>Reference:</b>	Determined by applying mixture rules.
<b>Classification:</b>	Reproductive/Development Toxicant – 6.8B
<b>Health Effects:</b>	Suspected of damaging fertility or the unborn child.


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<b>Reference:</b>	Determined by applying mixture rules.		
<b>Classification:</b>	STOT-RE – 6.9B		
<b>Health Effects:</b>	May cause damage to organs through prolonged or repeated exposure.		
<b>Reference:</b>	Determined by applying mixture rules.		
<b>Acute Dermal Toxicity</b>	Not Classified		
<b>Acute Inhalation Toxicity</b>	Not Classified		
<b>Acute Aspiration Toxicity</b>	Not Classified		
<b>Respiratory Sensitisation</b>	Not Classified		
<b>Skin Sensitisation</b>	Not Classified		
<b>Mutagenic</b>	Not Classified		
<b>STOT-SE</b>	Not Classified		
<b>Toxicity Data</b>			
<b>Product Calculated Acute Toxicity</b>			
ORAL LD50 6.1E: >2000 - ≤5000 mg/kg			
DERMAL LD50 >5000 mg/kg			
INHALATION LC50 (vapours) >20 mg/L/4H			
<b>Ingredient:</b>	<b>Oral LD50 mg/kg</b>	<b>Dermal LD50 mg/kg</b>	<b>Inhalation LC50 mg/L/4H</b>
Xylene	1590 – Mouse	1100	27.6 – Vap - Rat
Ethyl Benzene	3500 – Rat	-	9.6 – Vap - Rat
Toluene	636 - Rat	-	12.5 – Vap - Rat
<b>12. Ecological Information</b>			
This product is classified as Ecotoxic according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.			
H401 Toxic to aquatic life.			
<b>Ecotoxicity Data - CCID</b>			
<b>Product Calculated Aquatic Ecotoxicity – L(E)C50 mg/L:</b>			
9.1D: >1 - ≤10			
<b>Ingredients contributing to Aquatic Ecotoxicity:</b>			
<b>Ingredient</b>	<b>Classification</b>		
Xylene	9.1D		
Ethyl Benzene	9.1D		
Toluene	9.1D		
<b>Product</b>			
<b>Persistence &amp; Degradability</b>	No data		
<b>Mobility</b>	No data		
<b>Bioaccumulative Potential</b>	No data		
<b>Other</b>	No data		

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<b>13. Disposal Considerations.</b>	
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.	
<b>14. Transportation Information.</b>	
Regulated for transport	Keep separated from foodstuffs
UN Number:	1139
Proper Shipping Name:	Coating Solution
Class:	3
Packing Group:	III
Hazchem:	3Y
Marine Pollutant:	No
	
<b>15. Regulatory Information.</b>	
HSNO Classification:	3.1C, 6.1E(o), 6.3A, 6.4A, 6.7B, 6.8B, 6.9B(o/i). 9.1D
Group Standard:	HSR002269 Surface Coatings & Colorants – Flammable, Toxic (6.7)
<b>HSNO CONTROLS</b>	
Level 2: MSDS required when any quantity is present in a workplace.	
At least 2 x 4.5kg powder fire extinguishers required when 500L is present in a workplace.	
Level 3: Emergency Response Plan and Secondary Containment required when >10,000L is present in a workplace	
Flammable signage required when >1000L is stored.	
Ecotoxic signage required when >10,000L is stored.	
Location and transit depot test certification required for quantities greater than: 500L (closed containers >5L), 1500L (closed containers up to 5L), 250L (open containers).	
Hazardous atmosphere zone required for quantities greater than: 100L (closed containers), 25L (decanting), 5L (open occasionally), 1L (open containers in continuous use).	
Approved 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 an EPA/WorkSafe approved test certifier for further information and guidance.	



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**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

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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.