



## NURABOND NO.10 ADHESIVE COMPOUND

### 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	<a href="mailto:info@nuralite.co.nz">info@nuralite.co.nz</a>

#### IDENTIFICATION

Product Name	Nurabond No 10 Adhesive Compound
UN Number	Not Applicable
Hazchem Code	Not Applicable
NZ Dangerous Good Class	Not Applicable

#### PHYSICAL DATA

Vapour Pressure in MM HG	18
Boiling Point in Degs C	100
Vapour Density (Air-1)	1.26
Solubility in Water	100.0%
Evaporation Rate	1.0 (Butyl Acetate = 1)
Specific Gravity	1.0
Percent Volatile by Weight	Approx. 45.6
Appearance and Odour	Thick Black paste with slight odour

## REACTIVITY DATA

Stability	Stable
Materials to avoid	Strong Oxidizers
Hazardous decomposition	Unknown due to the complex nature of this material. Fumes from products complete or incomplete combustion of this material may include carbon dioxide, carbon monoxide, water vapour, oxides of nitrogen or a wide variety of innocuous or toxic fumes.
Hazardous polymerization	Will not occur

## HEALTH HAZARD DATA

### HEALTH EFFECTS

Ingestion	No hazard known
Absorption	No hazard known
Inhalation	No hazard known
Contact	No hazard known
Corrosion	No hazard known
Flammability	Not applicable

### FIRST AID

Eye Contact	Flush eyes with a large amount of water for at least 15 minutes. See a physician if irritation persists
Skin Contact	Wash affected areas with soap & water. Launder contaminated clothing
Medical conditions aggravated by exposure	None known
Entry route	Ingestion, Contact
Chronic effects	Non irritant, to skin irritating to the eyes

## SAFE HANDLING INFORMATION

### FIRE & EXPLOSION DATA

Flash Point	None
Upper Explosive Limit	Not Available
Lower Explosive Limit	Not Available

### SPECIAL FIREFIGHTING PROCEDURES & UNUSUAL FIRE & EXPLOSION HAZARDS

Material can spatter above 100degrees C. The dried film can burn.

## EXTINGUISHING MEDIA

Water spray, foam, dry chemical, carbon dioxide.

## SPILL OR LEAK PROCEDURES

### STEPS TO BE TAKEN WHEN MATERIAL IS SPILLED OR RELEASED

Soak up liquid with an absorbent material such as sand or earth. Package absorbent material or solid product in steel drums which are in good condition. Thoroughly clean area where spill occurred.

## WASTE DISPOSAL METHOD

Dispose of in accordance with local waste regulations

## PRECAUTIONS FOR USE

### SPECIAL PROTECTION INFORMATION

Ventilation	Not necessary but may be desirable to reduce odours
Protective gloves	Not normally required
Eye protection	Not normally required but is desirable handling any industrial product

### SPECIAL PRECAUTIONS

Handling and Storage	Store in a covered location in moderate temperatures. Direct sunlight and frosts should be avoided. <b>DO NOT ALLOW TO FREEZE.</b> Keep container tightly closed when not being used.
Other precautions	Use with adequate ventilation, avoid prolonged or repeated breathing of vapours. Avoid skin contact.



## **NURACIDE - MOSS, MOULD AND LICHEN KILLER**

### **MATERIAL SAFETY DATA SHEET**

#### **COMPANY DETAILS**

Company	Nuralite Waterproofing Ltd
Address	53a Victoria Street, Onehunga, Auckland
Telephone	09 579 2046
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Email	<a href="mailto:info@nuralite.co.nz">info@nuralite.co.nz</a>

#### **DESCRIPTION AND AREAS OF USE**

NURACIDE is a Biocide Concentrate, for killing moss, mould and lichens on surfaces of buildings, or elsewhere. It is to be diluted with water for saturation application.

NURACIDE has relatively low toxicity for an effective product of this type , and is fully bio-degradable.

NURACIDE is a quaternary amine functional biocide.

#### **SPECIFICATION DATA**

- i. Saturate all contaminated surfaces with a NURACIDE solution – 1 part NURACIDE to 9 parts water.
- ii. Allow a minimum of 48 hours, preferably 7 days, for reaction , before scrubbing or waterblasting the surfaces clean.
- iii. Apply a second, light application of NURACIDE solution and leave to dry before proceeding with other applications. This should ensure any remaining moss, mould or lichen roots are neutralised.

Note: Cleaning and Nuracide applications can be reversed if site requirements make that necessary , in which case, only the saturation application is required after cleaning.

NURACIDE concentrate or solution will also kill plants and grass.

## **PHYSICAL DATA**

Packaging:	20 litre plastic pails of concentrate
Shelflife	12 months unopened
Specific Gravity	1.02
Viscosity	Low
Active Concentration	30%
Expected Spread Rate	10m <sup>2</sup> - 15 m <sup>2</sup> per litre of mixed diluted NURACIDE solution

## **HEALTH AND SAFETY**

NURACIDE concentrate is alkaline and should be handled with respect. The concentrate can cause severe eye damage and may burn sensitive skin. Wear goggles and gloves when handling. Wash any affected areas with running water for 30 minutes and seek medical advice if necessary.

NURACIDE is non-flammable in concentrate or solution.

## **TECHNICAL ADVICE**

Please contact NURALITE Waterproofing Limited or one of our Approved Applicators, for more data, or information, or reports on existing buildings.

## **ACCURACY STATEMENT**

This technical data is accurate, in terms of our knowledge at the date of this publication. Modification, where required will be made if developments and changes occur.



## NURACOAT BAC

### MATERIAL SAFETY DATA SHEET

#### COMPANY DETAILS

Company	Nuralite Waterproofing Ltd
Address	53a Victoria Street, Onehunga, Auckland
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#### IDENTIFICATION

Product Name	Alkyd Enamels, Silkscreen, Alkyd Superfine and Tech 201 Alkyds, Industrial Aluminium, Bituminous Aluminium, Quick Dry Aluminium
Proper Shipping Name	Resin Solution (Contains Methyl Ethyl Ketone and Diacetone Alcohol)
Other Name	Nuracoat BAC
UN Number	1866
Hazchem Code	3(Y)
NZ Dangerous Good Class	3B

#### COMPONENT

#### HAZARDOUS COMPONENT

Mixed xylene isomers	
CAS No.	1330-20-7
TLV / TWA	100ppm; 435mg / m <sup>3</sup>
FLASH POINT:	27°C (Abel C.C.)
PROPORTION	1 - 3% wt
TOXIC SUBSTANCES	
SCHEDULE:	Standard Poison

Low Aromatic Hydrocarbon	
CAS No.	64742-82-1
TLV / TWA	100ppm; 435mg / m <sup>3</sup>
FLASH POINT:	38°C (Abel C.C.)
PROPORTION	28 - 35% wt
TOXIC SUBSTANCES	
SCHEDULE:	Standard Poison

High Aromatic Hydrocarbon	
CAS No.	64742-94-5
TLV / TWA	Not established
FLASH POINT:	68°C (Abel C.C.)

PROPORTION	1.5 - 3%
TOXIC SUBSTANCES	
SCHEDULE	Standard Poison

## PHYSICAL DATA

Appearance	Liquid White or Coloured
Odour	Hydrocarbon Solvent
Volatile %	33 - 38% wt
Density	0.93 - 1.49 (Dependent on colour)
Initial boiling point (Solvent)	139°C-2

## HEALTH HAZARD INFORMATION

(Relating to hazardous ingredients of paint)

Threshold Limit Value (TLV) see section II

## HEALTH EFFECTS

Inhalation	Acute inhalation LD50 (rat) expected to be > 5mg/lit expected to be harmful by inhalation and narcotic at high vapour concentrations. May irritate the respiratory tract. May cause headache, nausea, dizziness and narcosis.
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## FIRST AID

Inhalation	Move subject to fresh air. If rapid recovery does not occur, obtain medical attention.
Swallowed	Do not induce vomiting. Give nothing by mouth. If rapid recovery does not occur, obtain medical attention.
Eye	Flush eyes with copious clean water, lifting lids occasionally, obtain medical attention.
Skin	Remove contaminated clothing. Wash skin soap and water. If persistent irritation occurs, obtain medical attention.

## ADVICE TO DOCTOR

Dermatitis may result from prolonged exposure. Aspiration into the lungs may cause blurred vision, tremors, shallow and rapid breathing, delirium and unconsciousness.

## PRECAUTIONS FOR USE

Respiratory Protection	Use with adequate ventilation; ensuring a supply of clean fresh air.
Exposure Limits	See TLV, section II
Flammability	Highly flammable. Extreme risk of vapour ignition at normal handling temperatures.  Extinguish any naked flames, remove ignition source, Avoid sparks. Do not smoke.
Miscellaneous	Avoid contact with skin, eyes and clothing. Do not breath vapour. Poison, keep out of reach of children. If contaminated, launder clothing before reuse.

## PERSONAL PROTECTION

### Normal Operation:

Respirator	Where local exhaust ventilation is not practical, wear half mask respirator with organic vapour cartridge and built-in particulate filter NPF 20 (gas only).
Eyes	Wear chemical mono goggles
Skin	Wear silver shield or nitrile rubber gloves, standard issue work clothes and chemical resistant safety boots or shoes. If splashes are likely to occur, wear PVC apron.

### Spillage:

Respirator	Wear full face-piece respirators with organic vapour canister NPF 400. In a confined space, wear self-contained breathing apparatus open circuit type NPF 2000.
Eyes	Covered by respirator protection
Skin	Wear silver shield gloves under gauntlet type nitrile rubber gloves, knee length rubber safety boots and PVC one-piece suit with integral hood.

## SAFE HANDLING INFORMATION

### SPILLS

Dyke area of spillage. Absorb or contain liquid with sand, earth or other absorbent material. Shovel up and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum. Prevent contamination of storm water system. Retain any washing as contaminated waste.



**DISPOSAL**

Destroy by controlled incineration or by transfer to authorised disposal area.

**FIRE/EXPLOSION HAZARD**

Carbon monoxide may be evolved if incomplete combustion occurs. Product will float and can be reignited on surface of water. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Do not smoke.

**EXTINGUISHING MEDIA**

Foam, dry chemical powder carbon dioxide. Sand or earth may be used for small fires only. Do not use water jets.

**ENVIRONMENTAL PRECAUTIONS**

Prevent contamination of soil and water. If product enters soil it could contaminate ground water. Expected to be toxic to aquatic organisms, birds and fish.



## NURACOLOUR

### MATERIAL SAFETY DATA SHEET

#### COMPANY DETAILS

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Facsimile	09 579 5136
Email	<a href="mailto:info@nuralite.co.nz">info@nuralite.co.nz</a>

#### HAZARDS IDENTIFICATION

No hazards identified in the normal use of the product

#### IDENTIFICATION

Chemical Name	N/A
Hazchem Code	N/A
Shipping Name	Water Based Resin Gel
Dangerous Goods Class	N/A
Subsidiary Risk	N/A
Uses	Water Based Emulsion Surface Dressing for NURAPLY 3P roofs

#### PHYSICAL DATA

Appearance	A coloured viscous liquid
Odour	Sweet/slight ammonia
pH	8-10
Boiling point	100deg.C
Flash point	N/A (Water based)
Flammability Limits	N/A (Water based)
Solubility in water	Infinite

#### COMPONENT

#### WEIGHT

Inorganic pigments & fillers	Medium 10-60%
Acrylic Polymer	Medium 10-60%
2,2,4 TRIMETHYL 1-3 PENTANEDIOL MONOISOBUTYRATE COALESCENT	Low <10%

ISOTHIAZALONE PRESERVATIVE	Low < 1%
ALKYL ETHER SURFACTANT	Low < 1%
HYDROCARBON WAX	Low < 1%
AMMONIA	Trace
WATER	To 100%

## HEALTH HAZARD DATA

### FIRST AID

Swallowed	Drink plenty of water seek medical attention
Eyes	Flush open eye copiously with clean water for minimum 15 minutes, seek medical attention
Skin	Wash clean with soap/water. Remove affected clothing and launder before re-use
Inhaled	Move to fresh air

### HEALTH EFFECTS

Swallowed	No serious poison hazard known
Eye Contact	Moderate irritation and inflammation
Skin Contact	Slight irritation
Inhaled	Slight nausea/dizziness at extreme concentration only

**IN ALL CASES IF SYMPTOMS ARE SEVERE, PERSIST, OR CAUSE CONCERN, OBTAIN IMMEDIATE MEDICAL ADVICE.**

## SAFE HANDLING INFORMATION

### FIRE & EXPLOSION DATA

Flammability	Not flammable.
Decomposition	Decomposition products carbon & nitrogen oxides.
Additional	No additional fire/explosion hazards known

### WASTE DISPOSAL METHOD

Dispose of in accordance with national and local waste regulations

## PRECAUTIONS FOR USE

### SPECIAL PROTECTION INFORMATION

### PERSONAL PROTECTION

Eyes	Safety goggles. Ensure eyewash facilities are readily available
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Skin	Normal work clothing & footwear. Wear PVC coated gloves while stirring or decanting. Avoid prolonged skin contact
Respiratory	Wear approved respirator if spraying in confined spaces
Flammability	Not flammable

### **SAFE HANDLING INFORMATION**

Storage	No hazard
Transport	No hazard
Spills (Minor)	Absorb with sand or earth
Spills (Major):	Dyke or otherwise contain spillage. Absorb residues in sand or earth

### **WORK PLACE EXPOSURE LIMITS**

No specific exposure limit applicable. In general ensure adequate ventilation & do not use in confined spaces



## NURAPLY 3P, 3PM, 3PV, 3PF, NURAUNDERLAY, NURASHINGLES ROOFING AND TANKING SYSTEMS

### MATERIAL SAFETY DATA SHEET

#### COMPANY DETAILS

Company	Nuralite Waterproofing Ltd
Address	53a Victoria Street, Onehunga, Auckland
Telephone	09 579 2046
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Email	<a href="mailto:info@nuralite.co.nz">info@nuralite.co.nz</a>

#### HAZARDS IDENTIFICATION

No hazards identified in the normal use of the product

#### IDENTIFICATION

#### PHYSICAL DATA

#### COMPOSITION/INFORMATION ON INGREDIENTS

The products in the NURAPLY 3P range consist of reinforced base materials coated with bitumen & a surface finish. The base materials include polyester, glass/polyester & glass fibres in sheet form. The bitumen coating may contain mineral filler &/or synthetic polymers. The surface finish may be sand, talc, mineral granules or polymeric film.

The products are not classified as dangerous under The Chemicals (Hazard Information & Packaging) Regulations 1994. They may, however, contain or be coated with substances for which occupational exposure limits, which may be Maximum Exposure Limits (MEL) or Occupational Exposure Standard (OES), have been approved by the Health & Safety Committee, as indicated in the table below.

#### PRODUCT

**SUBSTANCE** (See Notes below table for occupational exposure limits of substances)

	<u>Silica</u>	<u>Talc</u>	<u>Glass fibre</u>	<u>Bitumen</u>
NURAPLY 3P	X	-	-	X
NURAPLY 3PM	X	-	-	X
NURAPLY 3PF	X	-	-	X
NURAPLY 3PV	X	-	-	X
NURASHINGLES	X	-	-	X
NURAUNDERLAY	X	-	-	X

## NOTES

1. Silica is present as a constituent of the sand & mineral slate surfaced finishes used. The OES, 8 hour TWA, for Total inhalable dust is 0.3mg/m<sup>3</sup> & respirable dust is 0.1mg/m<sup>3</sup>.
2. Talc is present as a surface finish. The OES, 8 hour TWA, for total inhalable dust is 10mg/m<sup>3</sup> & for respirable. Dust is 0.1mg/m<sup>3</sup>.
3. All products listed above contain bitumen. There is no approved limit for bitumen fume generated when the product is heated to melting, but exposure limit of 5mg/m<sup>3</sup> is recommended by the ABRFM.

## PHYSICAL & CHEMICAL PROPERTIES

The intended use of these products is as waterproofing membranes for roofs and basements. Additional product information including details of physical characteristics & application is available in the NURAPLY Systems technical literature or on our website [www.nuralite.co.nz](http://www.nuralite.co.nz)

## STABILITY AND REACTIVITY DATA

No known hazard

## REGULATORY INFORMATION

Not classified as dangerous for supply under the Chemicals (Hazard Information & Packaging) Regulations 1994.

## TOXICOLOGICAL INFORMATION

No known hazard

## ECOLOGICAL INFORMATION

No data available

## HEALTH HAZARD DATA

## HEALTH EFFECTS

### FIRST AID

First aid procedures apply when products are subjected to high temperatures, e.g. in a fire, or when heated during installation.

Eye Contact	Hot bitumen splashed into the eye should be cooled immediately by irrigating with cold running water for at least 10 minutes. Obtain medical advice.
Skin Contact	In the event of contact with hot bitumen, immediately cool affected part under cold running water for at least 10 minutes. Adhering bitumen can be left to act as a sterile barrier & may be removed using warm medicinal paraffin.
Inhalation	Remove from source of fumes to fresh air if any ill effects are experienced. Rest and keep warm.

**IN ALL CASES IF SYMPTOMS ARE SEVERE, PERSIST, OR CAUSE CONCERN, OBTAIN IMMEDIATE MEDICAL ADVICE.**

## **SAFE HANDLING INFORMATION**

### **FIRE & EXPLOSION DATA**

Bitumen based roofing membranes are combustible & release dense black smoke when they burn. In the event of a fire, wear protective clothing. Extinguish fire with foam or dry powder. Do not use water jet as this will spread a molten bitumen fire. NURALITE Applicators should have fire extinguishers on all application sites.

### **WASTE DISPOSAL METHOD**

Dispose of in accordance with national and local waste regulations

## **PRECAUTIONS FOR USE**

### **SPECIAL PROTECTION INFORMATION**

The use of heavy duty gloves to protect against skin abrasion & burns through contact with hot bitumen or flame of gas torch during installation, is recommended.

### **SPECIAL PRECAUTIONS**

Store under cover away from sources of heat & ignition. Refer also to product technical literature for any specific conditions.



## NURASTONE SEALER

### MATERIAL SAFETY DATA SHEET

#### COMPANY DETAILS

<b>Company</b>	<b>Nuralite Waterproofing Ltd</b>
<b>Address</b>	<b>53a Victoria Street, Onehunga, Auckland</b>
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#### HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. DANGEROUS GOODS

Hazard classification according to the criteria of NOHSC.

Dangerous goods classification according to the Australia Dangerous Goods Code.

<b>Risk Phrase(s)</b>	R10 Flammable R20 Harmful by inhalation R37 Irritating to respiratory system
<b>Safety Phrase(s)</b>	S23 Do not breathe gas/fumes/vapour/spray S44 If you feel unwell contact a doctor or Poisons Information Centre immediately (show the label where possible)

#### IDENTIFICATION

<b>Product Name</b>	Nurastone Sealer
<b>Other Names</b>	Solution Acrylic
<b>Proper Shipping Name</b>	Resin Solution
<b>Hazchem Code</b>	3(Y)
<b>UN Number</b>	1866
<b>Dangerous Goods Class</b>	3
<b>Packaging Group</b>	III
<b>EPG Number</b>	3A1
<b>IERG Number</b>	14
<b>Uses</b>	Primer/Sealer for porous surfaces



## PHYSICAL DATA

<b>Form</b>	Liquid
<b>Appearance</b>	Pale clear liquid
<b>Odour</b>	Low, not unpleasant
<b>Boiling Point</b>	146-197°C
<b>Solubility in Water</b>	Insoluble
<b>Specific Gravity</b>	0.91 (H2O = 1)
<b>Vapour Pressure</b>	0.8 kPa at 38°C
<b>Vapour Density (air=1)</b>	4.5 (Air=1)
<b>Evaporation Rate</b>	0.16 (Butyl acetate = 1)*
<b>Volatile Component</b>	60.0% by volume
<b>Flash Point</b>	35°C TCC*
<b>Flammability</b>	Flammable liquid. Keep away from heat, sparks or naked flames
<b>Flammable Limits</b>	
- Lower	1.0%
<b>Flammable Limits</b>	
- Upper	7.5%
<b>Other information</b>	VOC:455.0 g/litre *for Mineral Turps

## COMPOSITION INFORMATION ON INGREDIENTS

### Chemical Characterization Liquid

Ingredients	Name	Cas	Proportion
	Acrylic copolymer Resin	Proprietary	25%
	Mineral Turps	64742-95-6	75%

## STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Incompatible Materials</b>	Halogens, molten sulfur, strong oxidising agents
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide, fumes, smoke
<b>Hazardous Reactions</b>	Keep away from heat and open flame
<b>Hazardous Polymerization</b>	Will not occur

## HEALTH HAZARD DATA

### FIRST AID

Swallowed	Do not induce vomiting. For advice, contact a Poisons Information Centre (Phone: New Zealand 0800 POISON/ 0800 764 766) or a doctor (at once)
Eyes	If in eyes wash out immediately with water. If symptoms persist seek medical attention
Skin	Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention
Inhalation	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Apply artificial respiration if not breathing. Seek medical attention

### First Aid Facilities

Eye wash fountains and safety showers should be accessible

### Advice to Doctor

#### SYMPTOMS AND FINDINGS ORAL:

Gastrointestinal irritation, nausea, vomiting and cramping. CNS depression, ranging from mild headache to anesthesia and coma. Pulmonary irritation secondary to exhalation of solvent. Lavage with cuffed tube if large quantity ingested. Aspiration is the main danger. Enforce bed rest and observe carefully. Prophylactic antibiotics are useful. Observe for 24 hours for chemical pneumonitis. Longer term medical surveillance may be necessary. Maintain airway and vital functions. Avoid sympathomimetic amines.

INHALATION: CNS depression characterized by headache and dizziness.

For further advice, contact a Poisons Information Centre (Phone NEW ZEALAND 0800 POISON/088 764 766)

## TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	Harmful by inhalation. High vapour concentrations are irritating to the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous systems effects.
<b>Ingestion</b>	May cause irritation. Small amounts of liquid aspirated into the respiratory system during ingestion, or from vomiting may cause bronchopneumonia or pulmonary edema.
<b>Skin</b>	May be mildly irritating. Frequent or prolonged contact with skin may cause dermatitis.
<b>Eye</b>	May be irritating to eyes
<b>Chronic Effects</b>	Not known

**IN ALL CASES IF SYMPTOMS ARE SEVERE, PERSIST, OR CAUSE CONCERN, OBTAIN IMMEDIATE MEDICAL ADVICE**

## FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Foam, carbon dioxide or dry chemical
<b>Specific Methods</b>	Wear full body protective clothing and self-contained breathing apparatus. Water spray may be used to keep fire exposed containers cool. Keep away from heat and flames. Prevent static discharge.
<b>Specific Hazards</b>	Flammable. Keep away from heat and flames. Prevent static discharge

## ACCIDENTAL RELEASE MEASURES

<b>Spills and Disposal</b>	<p>Extinguish or remove all sources of ignition. Clear area of all unprotected personnel. Wear appropriate protection equipment. Do not contaminate streams, rivers or water courses. Do not flush drains or sewers. Inform local authority if liquid enters drains, sewers, streams etc. Shut off sources of leak if safe to do so. Dike and contain spill with sand or earth.</p> <p>MINOR: Absorb the liquid with sand, earth or other absorbent. Place used absorbent in suitable, sealable, labeled containers. Keep away from heat, naked flames or sparks.</p> <p>MAJOR: Take up liquid with vacuum truck or absorb with sand, earth or other absorbent. Place used absorbent in</p>
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suitable, sealable, labeled containers. Keep away from heat, naked flame or sparks.

## HANDLING AND STORAGE

### Precautions for Safe Handling

Use approved combustible liquid storage containers in the work area. Keep material away from sparks, flames and other ignition sources. Post 'NO SMOKING' signs in area of use. Do not use near welding operations, flames or hot surfaces. Prevent release of vapours and mists into workplace air. Use smallest possible amounts in designated areas with adequate ventilation. Have emergency equipment (for fires, spills, leaks, etc) readily available. Label containers. Keep containers closed when not in use. Empty containers may contain residues which are hazardous. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet.

### Conditions for Safe Storage

FLAMMABLE. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition. Keep the container tightly closed. Reference should be made to relevant government regulations.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### National Exposure Standards

New Zealand: No exposure standards have been established for this material by The Occupational safety and Health Service of the Department of Labour

### Other Exposure Information

TWA – the Time-Weighted Average airborne concentrations over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers. These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity

<b>Engineering Controls</b>	Local exhaust ventilation is usually required. Provide explosion proof ventilation system. Maintain adequate ventilation. Maintain concentration levels below the exposure limit set for the solvent. Performance of ventilation system should be regularly monitored.
<b>Respiratory Protection</b>	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used
<b>Eye protection</b>	Safety glasses with side shields or goggles should be worn
<b>Hand Protection</b>	Chemical resistant gloves
<b>Footwear</b>	Safety boots
<b>Body Protection</b>	Long sleeved overalls

## ECOLOGICAL INFORMATION

**Environment Protection** Avoid contaminating waterways. Harmful to aquatic life

## DISPOSAL CONSIDERATIONS

**Waste Disposal** Dispose of in accordance with Local regulations.

## TRANSPORT INFORMATION

New Zealand: This material is classified as a Class 3 – Flammable liquid according to NZS 5433:1999 Transport of Dangerous Goods on Land. Must not be loaded in the same freight container or on the same vehicle with:

- Class 1 – Explosives
- Class 2.1 – Flammable gases
- Class 2.3 – Toxic gases
- Class 4.2 – Spontaneously combustible substances
- Class 5.1 – Oxidising substances
- Class 5.2 – Organic peroxides or
- Class 7 – Radioactive materials unless specifically exempted. Must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:
- Class 4.2 – Spontaneously combustible substances

- Class 4.3 – Dangerous when wet substances
- Class 5.1 – Oxidising substances
- Class 5.2 – Organic peroxides
- 

## REGULATORY INFORMATION

<b>Regulatory Information</b>	Poisons Schedule (New Zealand): Product is classified as a Schedule 3 (S3) Standard Poison in the New Zealand Toxic Substances Regulations 1983
<b>Packaging and Labeling</b>	New Zealand: Class 3 labels according to NZS 5433: 1999 Transport of Dangerous Goods on land
<b>Hazard Category</b>	Harmful, irritant

## OTHER INFORMATION

<b>Contact Person/Point</b>	For further information ask for: For specialist advice in emergencies. New Zealand 0800 154 666
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IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read the MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.



## NURAFLUX/PREMSEAL PRIMER

### 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	<a href="mailto:info@nuralite.co.nz">info@nuralite.co.nz</a>

#### IDENTIFICATION

Product Code	Bitseal
Proper Shipping Name	Bitumen Cut-Backs
Un Number	1999
Dangerous Goods Class	3
Subsidiary Risk	
Hazchem Code	2w
Packaging Group	ii

#### PHYSICAL DATA

Appearance:	Black Paint like Liquid.
Boiling Point °C:	148 – 194
Vapour Pressure @ 25°C, MmHg	.3
Vapour Density (Air=1)	>1
Flash Point, °C By PMCC	38 (ASTM D56, TCC)
Solubility In Water,% Mass	Insoluble

#### INGREDIENTS

<u>Component</u>	<u>Proportion (% mass)</u>
HAWS (High aromatic white spirit)	>40
Bitumen	>50

## HEALTH HAZARD DATA

### HEALTH EFFECTS

Swallowed	Acute oral LD50 (rat) expected to be above 2000. Do not induce vomiting. Give nothing by mouth. Mg/kg. Aspiration into the lungs may cause chemical pneumonitis which can be fatal.  Do not induce vomiting. Give nothing by mouth. Seek medical attention.
Eye	Not irritating. May cause transitory pain.  Flush affected eye thoroughly for at least 15 minutes.
Skin	Not a skin sensitizer. Prolonged contact can cause defating which can lead to dermatitis.  Wash skin with soap and water.
Inhalation	Acute inhalational LC50 (rat) expected to be >5 mg/1. May cause headache, dizziness, nausea and narcosis.  Remove to fresh air. If rapid recovery does not occur, obtain medical attention.

## SAFE HANDLING INFORMATION

### FIRE & EXPLOSION DATA

Hazard	Flammable liquid. Vapour accumulation could flash and/or explode if ignited.
Extinguishing Media	Foam, Dry Chemical, Water Spray.
Special Fire Precautions	Fire fighters must use recommended protective equipment and self-contained breathing apparatus.



## SPILLS AND DISPOSAL

Spills	Evacuate spill area and eliminate all ignition sources. Report spill to fire brigade. If possible remove leaking containers to a detached area wearing approved respirator and personal protection equipment. Bund spill area with inert material.
Disposal	Dispose of waste at an appropriate waste disposal facility in accordance with local authority bylaws.

## PRECAUTIONS FOR USE

Engineering Controls	Use only in well ventilated area.
Flammability	Flammable. In use may form flammable/explosive vapour-air mixture.
Miscellaneous	Avoid prolonged or repeated contact with skin. Do not breathe spray/mists. Take precautionary measures against static discharges. Earth all equipment

## STORAGE

Store away from heat and open flames. Store at ambient temperatures. Keep containers tightly closed and in a well ventilated place

## **PERSONAL PROTECTION**

### **Normal Operation**

Respiratory	Required – half mask respirator with organic vapour cartridge with built-in particulate filter NPF20 (gas only).
Eye	Required – chemical monogoggles
Skin	Required – PVC gloves, chemical resistant safety shoes or boots and standard issue work clothes.

### **Spillage**

Avoid contact with skin and eyes. Do not breathe vapour. Extinguish naked flames. Remove ignition sources. No smoking. Evacuate the area of all non-essential personnel. Shut off leaks, if possible without personal risks.

## **OTHER INFORMATION**

Biodegradability	No
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