



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	info@nuralite.co.nz

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/l. 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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NURABOND NO.10 ADHESIVE COMPOUND

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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. DO NOT ALLOW TO FREEZE. Keep container tightly closed when not being used.
Other precautions	Use with adequate ventilation, avoid prolonged or repeated breathing of vapours. Avoid skin contact.



NURAGLAZE

GLOSS OR SATIN CLEAR ACRYLIC GLAZE COAT

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HAZARDS IDENTIFICATION

No hazards identified in the normal use of the product

IDENTIFICATION

Chemical Name	N/A
Hazchem Code	N/A
Dangerous Goods Class	N/A
Subsidiary Risk	N/A
Uses	Water Based Emulsion Surface Dressing

PHYSICAL DATA

Appearance	Translucent wet, water-white and clear satin or gloss dry film
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
Viscosity:	150 centipose
Specific Gravity:	1.03
Dry Film Build:	25-40 micrometres

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
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

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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/m³ & respirable dust is 0.1mg/m³.
2. Talc is present as a surface finish. The OES, 8 hour TWA, for total inhalable dust is 10mg/m³ & for respirable. Dust is 0.1mg/m³.
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/m³ 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

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.