



**NURAFLEX/PREMSEAL PRIMER**

June 2008

**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 @<br>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.<br><br>Do not induce vomiting. Give nothing by mouth. Seek medical attention. |
| Eye        | Not irritating. May cause transitory pain.<br><br>Flush affected eye thoroughly for at least 15 minutes.  |
| Skin       | Not a skin sensitizer. Prolonged contact can cause defating which can lead to dermatitis.<br><br>Wash skin with soap and water.   |
| Inhalation | Acute inhalational LC50 (rat) expected to be >5 mg/1. May cause headache, dizziness, nausea and narcosis.<br><br>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



**NURAPLY 3P, 3PM, 3PV, 3PF, NURAUUNDERLAY, 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              |
| NURAUUNDERLAY | 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.