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
Facsimile: 09 579 5136
Email: info@nuralite.co.nz

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.

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>SUBSTANCE (See Notes below table for occupational exposure limits of substances)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Silica Talc Glass fibre Bitumen</td>
</tr>
<tr>
<td>NURAPLY 3P</td>
<td>x - - x</td>
</tr>
<tr>
<td>NURAPLY 3PM</td>
<td>x - - x</td>
</tr>
<tr>
<td>NURAPLY 3PF</td>
<td>x - - x</td>
</tr>
<tr>
<td>NURAPLY 3PV</td>
<td>x - - x</td>
</tr>
<tr>
<td>NURASHINGLES</td>
<td>x - - x</td>
</tr>
<tr>
<td>NURAUNDERLAY</td>
<td>x - - x</td>
</tr>
</tbody>
</table>

17/09/2015
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 0.3m3 & 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.

17/09/2015
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.
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   info@nuralite.co.nz

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: None known
aggravated by exposure

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 100 degrees 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
<table>
<thead>
<tr>
<th>Protection</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilation</td>
<td>Not necessary but may be desirable to reduce odours</td>
</tr>
<tr>
<td>Protective gloves</td>
<td>Not normally required</td>
</tr>
<tr>
<td>Eye protection</td>
<td>Not normally required but is desirable handling any industrial product</td>
</tr>
</tbody>
</table>

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. |
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
Facsimile: 09 579 5136
Email: info@nuralite.co.nz

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 quartenary 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  
Shelf life: 12 months unopened  
Specific Gravity: 1.02  
Viscosity: Low  
Active Concentration: 30%  
Expected Spread Rate: 10m² - 15 m² 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.
NURACOLOUR
MATERIAL SAFETY DATA SHEET

COMPANY DETAILS

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Address: 53a Victoria Street, Onehunga, Auckland
Telephone: 09 579 2046
Facsimile: 09 579 5136
Email: info@nuralite.co.nz

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%
<table>
<thead>
<tr>
<th>Substance</th>
<th>Hazard Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOTHIAZALONE PRESERVATIVE</td>
<td>Low &lt; 1%</td>
</tr>
<tr>
<td>ALKYL ETHER SURFACTANT</td>
<td>Low &lt; 1%</td>
</tr>
<tr>
<td>HYDROCARBON WAX</td>
<td>Low &lt; 1%</td>
</tr>
<tr>
<td>AMMONIA</td>
<td>Trace</td>
</tr>
<tr>
<td>WATER</td>
<td>To 100%</td>
</tr>
</tbody>
</table>

**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.
<table>
<thead>
<tr>
<th><strong>Skin</strong></th>
<th>Normal work clothing &amp; footwear. Wear PVC coated gloves while stirring or decanting. Avoid prolonged skin contact</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Respiratory</strong></td>
<td>Wear approved respirator if spraying in confined spaces</td>
</tr>
<tr>
<td><strong>Flammability</strong></td>
<td>Not flammable</td>
</tr>
</tbody>
</table>

**SAFE HANDLING INFORMATION**

<table>
<thead>
<tr>
<th><strong>Storage</strong></th>
<th>No hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transport</strong></td>
<td>No hazard</td>
</tr>
<tr>
<td><strong>Spills (Minor):</strong></td>
<td>Absorb with sand or earth</td>
</tr>
<tr>
<td><strong>Spills (Major):</strong></td>
<td>Dyke or otherwise contain spillage. Absorb residues in sand or earth</td>
</tr>
</tbody>
</table>

**WORK PLACE EXPOSURE LIMITS**

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Proportion (% mass)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAWS (High aromatic white spirit)</td>
<td>&gt;40</td>
</tr>
<tr>
<td>Bitumen</td>
<td>&gt;50</td>
</tr>
</tbody>
</table>

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
NURASTONE SEALER

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: info@nuralite.co.nz

HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. DANGEROUS GOODS

Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

Risk Phrase(s)
- R10 Flammable
- R20 Harmful by inhalation
- R37 Irritating to respiratory system

Safety Phrase(s)
- 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

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

PHYSICAL DATA

Form: Liquid
Appearance: Pale clear liquid

17/09/2015
Odour: Low, not unpleasant
Boiling Point: 146-197 °C
Solubility in Water: Insoluble
Specific Gravity: 0.91 (H2O = 1)
Vapour Pressure: 0.8 kPa at 38 °C
Vapour Density (air=1): 4.5 (Air=1)
Evaporation Rate: 0.16 (Butyl acetate = 1)*
Volatile Component: 60.0% by volume
Flash Point: 35 °C TCC*
Flammability: Flammable liquid. Keep away from heat, sparks or naked flames

Flammable Limits
- Lower: 1.0%
- Upper: 7.5%

Other information: VOC:455.0 g/litre *for Mineral Turps

COMPOSITION INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Name</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acrylic copolymer Resin</td>
<td>Proprietary</td>
</tr>
<tr>
<td></td>
<td>Mineral Turps</td>
<td>64742-95-6</td>
</tr>
</tbody>
</table>

STABILITY AND REACTIVITY

Chemical Stability: Stable
Incompatible Materials: Halogens, molten sulfur, strong oxidising agents
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, fumes, smoke
Hazardous Reactions: Keep away from heat and open flame
Hazardous Polymerization: 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

Inhalation
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.

Ingestion
May cause irritation. Small amounts of liquid aspirated into the respiratory system during ingestion, or from
vomiting may cause bronchopneumonia or pulmonary edema.

**Skin**
May be mildly irritating. Frequent or prolonged contact with skin may cause dermatitis.

**Eye**
May be irritating to eyes

**Chronic Effects**
Not known

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

### FIRE FIGHTING MEASURES

**Suitable Extinguishing Media**
Foam, carbon dioxide or dry chemical

**Specific Methods**
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.

**Specific Hazards**
Flammable. Keep away from heat and flames. Prevent static discharge

### ACCIDENTAL RELEASE MEASURES

**Spills and Disposal**
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.

**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.

**MAJOR:** Take up liquid with vacuum truck or absorb with sand, earth or other absorbent. Place used absorbent in 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.

<table>
<thead>
<tr>
<th>National Exposure Standards</th>
<th>New Zealand: No exposure standards have been established for this material by The Occupational safety and Health Service of the Department of Labour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Exposure Information</td>
<td>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</td>
</tr>
<tr>
<td>Engineering Controls</td>
<td>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.</td>
</tr>
<tr>
<td>Respiratory Protection</td>
<td>If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used</td>
</tr>
<tr>
<td>Eye protection</td>
<td>Safety glasses with side shields or goggles should be worn</td>
</tr>
</tbody>
</table>
Hand Protection  Chemical resistant gloves
Footwear  Safety boots
Body Protection  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

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

**OTHER INFORMATION**

**Contact Person/Point**
For further information ask for: For specialist advice in emergencies. New Zealand 0800 154 666

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.
# Material Safety Data Sheet

## Company Details

<table>
<thead>
<tr>
<th>Company</th>
<th>Nuralite Waterproofing Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>53a Victoria Street, Onehunga, Auckland</td>
</tr>
<tr>
<td>Telephone</td>
<td>09 579 2046</td>
</tr>
<tr>
<td>Facsimile</td>
<td>09 579 5136</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:info@nuralite.co.nz">info@nuralite.co.nz</a></td>
</tr>
</tbody>
</table>

## Identification

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

## Component

<table>
<thead>
<tr>
<th>Harmful Component</th>
<th>CAS No.</th>
<th>TLV / TWA</th>
<th>Flash Point</th>
<th>Proportion</th>
<th>Toxic Substances Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed xylene isomers</td>
<td>1330-20-7</td>
<td>100ppm; 435mg / m³</td>
<td>27°C (Abel C.C.)</td>
<td>1 - 3% wt</td>
<td>Standard Poison</td>
</tr>
<tr>
<td>Low Aromatic Hydrocarbon</td>
<td>64742-82-1</td>
<td>100ppm; 435mg / m³</td>
<td>38°C (Abel C.C.)</td>
<td>28 - 35% wt</td>
<td>Standard Poison</td>
</tr>
<tr>
<td>High Aromatic Hydrocarbon</td>
<td>64742-94-5</td>
<td>Not established</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
FLASH POINT: 68ºC (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) 139ºC-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/lt expected to be harmful by inhalation and narcotic at high vapour concentrations. May irritate the respiratory tract. May cause headache, nausea, dizziness and narcosis.

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.