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FOREVERBREATHE™ EXTERIOR OIL TECHNICAL INFORMATION

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Title	Foreverbreathe Exterior Oil Technical Information
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Contents

FOREVER BREATHE™ OIL COATINGS

Natural. Breathable. Beautiful.

Enhance and maintain the natural beauty of your timber surfaces with Foreverbreathe™ Oil Coatings. Developed using innovative plant chemistry, our extensive range of natural oils, waxes and cleaning products provide exceptional performance. Being breathable and free of harmful chemicals they support a healthy home environment.

FEATURES:

- Interior & external applications
- Clear or tinted colours available
- Breathable and free of harmful chemicals
- Made in New Zealand from natural plant chemistry

HEALTH BASED BUILDING™ natural selection

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FOREVER BREATHE™ OIL COATINGS

FLOORING

Decorative appearance on **Foreverbeech™** (left) and **American White Oak** (right). Available in clear and the colours below.

CLADDING

Decorative appearance on **Foreverbeech™**

Decorative appearance on **Earthen Radiata**

DECKING

Decorative appearance on **Foreverbeech™**

Decorative appearance on **Earthen Radiata**

Disclaimer: Colours are demonstrated on Foreverbeech™, American White Oak & Earthen Radiata and are as accurate as print and digital displays allow.

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Foreverbreathe Exterior Oil

Foreverbreathe Exterior Oil finishes are made from plant based chemistry using Tung Nut Oil, Tree Resin, Hard Plant Wax, Eucalyptus Oil and Micro Earthen Pigments. Our goal has always been to make products from the finest possible ingredients to protect timber. Most mainstream petro-chemical oils contain residual poisons to help prevent the development of mould spores. While they work with varying degrees of success, such poisons are dangerous to both the health of the person applying the oil and the immediate environment. Residual poisons are particularly harmful as they have been created to remain active over a prolonged period. By formulating our oils from breathable natural ingredients, every effort has been made to slow the occurrence of mould spores while not exposing our customers and the environment to potentially harmful chemicals.

1: Preparation: First & Second Coats Uncoated Timber and Second Coat on Factory Coated Timber

12 - 25 degrees Celsius is the target temperature away from direct sunlight. The objective is to coat the timber evenly without it drying too rapidly. Rapid drying can lead to colour variations. The surface must be dry, clean and free of dust. Timber moisture content should be no more than 16%.

2: Uncoated Timber:

Mix Foreverbreathe Oil thoroughly by shaking container to allow oil and pigment to mix and ensure no separation. Refer application kit
https://www.healthbasedbuilding.com/coatings/foreverbreathe-exterior-oil-application-kit

Lay coated timber away from contact with ground and away from direct sunlight with good ventilation. The deck structure is a good platform to use. Ensure timber is separated to prevent variation in coated appearance which can occur if coating in is contact with coating. Apply oil to back face and edges. Leave to dry for no less than 1 hour before applying oil to the top face. Ensure excess oil is not left to pool on top face as this may establish colour variations. The timber can now be installed with a 2nd coat applied to top face. **NOTE:** Ensure cut ends of timber are coated during the installation process.

3: Factory Coated Timber: Where factory pre-coated timber is involved apply oil to all visible timber using method described in section 2 after installation.

Clean Up: White spirit can be used to clean tools etc. Safety Instructions: Keep out of reach of children. Do not pour oil residue into the sewer. Let the remnants dry out and dispose of with your domestic rubbish collection. WARNING: DO NOT LEAVE OIL COATED PRODUCT IN A CRUMPLED OR COMPRESSED STATE AS SELF COMBUSTION CAN OCCUR

Deck Timber Maintenance & Re-Coating:

Refer
https://healthbasedbuilding.co.nz/documents/TD-025b-Foreverbeech90x23Deckingfinal_v1.5_22.1.20.pdf

Cladding Timber Maintenance & Re-Coating: To maintain the original decorative appearance, cleaning and re-coating should be every 3-5 years. Cleaning only can be within shorter periods every 12 months using a soft bristle brush and low pressure water system to remove dust particulate. Once cleaned re-coating can be as per the 2nd coat application process described in section 3.

MATERIAL SAFETY DATA SHEET

1. Identification Of The Material & Supplier

Product Name: ForeverBreathe Exterior Oil

Other Names(s) :

Chemical Characterization:
Mixture of binding agents based on plant oils, wood rosins, natural waxes, metal oxide pigments and dearomatized hydrocarbons.

Use or Description:
Coating exterior cladding and timberwork

Suppliers Name: Natural House Company.
Street Address:
9 Trewavas Street,
Motueka, 7120, New Zealand.

Telephone: 0800 11 20 30
Web: www.naturalhouse.co.nz

Emergency Telephone: 0275 5450855
National Poisons & Hazardous Chemicals
Information Centre: 0800 POISON (0800 764 766)
NZ Emergency Services: Dial 111 (if in doubt)

2. Hazards Identification

Hazard Classification:
6.1E - Substance that may be harmful if swallowed and enters airways.
6.3B - Substance that may cause mild skin irritation.

Hazard statement codes:
H304 May be harmful if swallowed and enters airways.
H316 Causes mild skin irritation.

Precautionary statement codes - prevention:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of the reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement codes - Response
P314 Get medical advice/attention if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P370+P378 In case of fire: Use foam, carbon dioxide or dry chemical.

3. Composition / Information On Ingredients

Potentially Hazardous Ingredients	% by weight (approx)	TLV (TWA) mg/m3	TLV (TWA) ppm	STEL (TWA) mg/m3	STEL (TWA) ppm	Cas No.
Alkanes	45-55	1200	171			90622-58-5
Zirconium Drier	0.1-1	100				94581-21-2
Zinc Drier	0.1-1	100				84418-50-8
Manganese Drier	0.1-1	100				37449-19-7

4. First Aid Measures

Inhalation Move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped.

Skin Contact If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Eye Contact Hold eyelids and flush the eye continuously with running water. Continue flushing for at least 15minutes. Get medical assistance. if irritation persists.

Ingestion If swallowed, do not induce vomiting. Give a glass of water if person is conscious. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

Health Hazard Information: Treat According to symptoms. Gastric lavage may be indicated if ingested. Do not wait for symptoms to develop. General measures should be taken to control acidosis and maintain urine output.

5. Fire Fighting Measures

Extinguishing Media to be used:
Dry Chemical
Alcohol Foam

Special Fire Fighting Procedures
Use water to keep fire exposed containers cool. Do not use a heavy water stream, in order to avoid the fire to extend. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop leak. Prevent extinguishing media from escaping to drains and waterways.

Unusual Fire and Explosion Hazards
Vapour density heavier than air. This product is combustible.

6. Accidental Release Measures

Spill and Leak Procedure
Eliminate every possible source of ignition. Avoid breathing vapour and contact with skin, eyes and clothing.
Wear recommended personal protective equipment.
Shut off leaks if without risks.
If Material Is Released Or Spilled: Absorb on fire retardant treated sawdust, diatomaceous earth, etc.
Prevent entry of product into public water, sewers, or soil.
Shovel up and dispose of at appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

7. Handling & Storage

Handling
Avoid prolonged repeated skin contact. Avoid contact with eyes. Wear safety glasses. Avoid inhalation of vapours or mists.
Use in well ventilated area away from all ignition sources. Take special care to avoid static electric discharge.
Keep container closed.

Storage
Store in a cool area. Do not pressurise, cut, heat or weld containers- residual vapours are flammable.
This product is combustible and will fuel a fire in progress.

8. Exposure Control / Personal Protection

Recommended Personal Protective Equipment to be worn during use of product:
Protective Overalls
Synthetic Apron
Safety Glasses
Splash Goggles
Dust & Vapour Respirator
Gloves
Boots

9. Physical And Chemical Properties

Appearance and Odour
Low viscosity liquid in various colours with a solvent odour
Density 0.800
Boiling Range,°C 195 - 203
Viscosity N/A
Flash Point° 63
Evaporation Rate (BuAc=100) NE
Vapour Pressure,mm Hg at 20° 0.069
Vapour Density (Air=1) >1.0
% Volatile Matter (by weight) NE
Solubility in Water Negligible
Melting Point/Freezing Point,°C NA
Aromatics, % NE
Aniline Point, °C (Mixed)
% Volatile Matter, VOC's (by weight) 65g/Litre
Colour Various
Refractive Index, @ 20° NE
Residue On Evaporation, mg/100ml NE
pH NA
Flammability Limit, %vol

Lower (LEL)	**Upper (UEL)**	**Auto Ignition Temperature, °C**
0.7	5.4	365

NA = Not Applicable, NE = Not Established,
NR = Not Regulated Against D = Decomposes

10. Stability And Reactivity

Reactivity Data
Stable at room temperature and pressure.
Avoid sources of heat and ignition, open flames.

Hazardous Decomposition By products
Carbon dioxide and carbon monoxide.

Hazardous Polymerisation
Will Not Occur

11. Toxicological Information

Acute Effects of Overexposure

Ingestion
Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema. Ingesting large amounts of this product will result in headaches, nausea, dizziness and tracheal burning.

Skin Contact
This product is mildly irritating to the skin with prolonged exposure. It may result in dryness and cracking of the skin.

Inhalation
Vapour concentrations above recommended exposure levels are irritating to the nose and throat. The inhalation of this product in large quantities will yield moderate discomfort. Over exposure may be evident through symptoms of dizziness, nausea, headaches and other central nervous system effects.

Eye Contact
This product may be mildly irritating to the eyes, but will not permanently damage the eye tissue.

Mutagenic Effects None

Reproductive Effects None

Chronic Effects No chronic health data is available for this product.

12. Ecological Information

Not identified as being harmful to aquatic life.

13. Disposal Considerations

This product can degrade rapidly in air. Expected to be removed in wastewater treatment. Based upon data for similar components or estimated data, this product is expected to be biodegradable according to OECD guidelines.

14. Transport Information

Land Transport ADR/RID
UN No: Not regulated **Non DG**
Technical name: Natural Wood Oil

Marine Transport IMDG/GGV
UN No: Not regulated **Non DG**
Technical name: Natural Wood Oil

Air Transport ICA/IATA
UN No: Not regulated **Non DG**
Technical name: Natural Wood Oil

15. Regulatory Information

This product is not classified as dangerous goods.

16. Other Information

IF PRINTED THIS MSDS SHEET IS UNCONTROLLED.

For advice, contact National Poison Centre (Phone New Zealand: 0800 764 766) or a doctor.

Natural House Company urges each customer or recipient of this MSDS to study it carefully to become aware of and the hazards associated with the product.
The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS. To promote safe handling, each customer or recipient should:

(1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards of safety;
(2) furnish this same information to each of its customers for the product; and
(3) request its customers to notify their employees, customers, and other users of the product of this information.

NOTE: The information and recommendations contained in this data sheet have been compiled from sources believed to be reliable and represent the best current opinion on the subject. No warranty, guarantee or representation is made by the company as to the absolute correctness or sufficiency of any representation contained in this data sheet and the company assumes no responsibility in connection therewith. Nor can it be assumed that all acceptable safety measures are contained in this data sheet or that other additional measures may not be required under particular or exceptional circumstances or conditions.