



## **SAFETY DATA SHEET**

### **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:**

<b>Product Name:</b>	Norlake Medium Bark.
<b>Recommended Use:</b>	Pine bark nuggets for decorative garden landscaping to suppress weed growth, conserve water and create a uniform look in home gardens.
<b>Company Name and Address:</b>	Tui Products Ltd, Truman Lane, Mount Maunganui, New Zealand
<b>Telephone Number:</b>	+64 7 5752160
<b>Emergency Telephone Numbers:</b>	0800 CHEMCALL (0800 243 622) 24 hours 0800 POISON (0800 764 766) National Poisons Centre 111 – New Zealand Fire Service
<b>Date of Preparation:</b>	November 2016

### **2. HAZARDS IDENTIFICATION:**

**HSNO Hazard Classifications:** Based on available information, not classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

### **3. COMPOSITION / INFORMATION ON INGREDIENTS:**

<b>COMPONENT</b>	<b>PROPORTION</b>	<b>CAS NUMBER</b>
Pine Bark Nuggets	100%	-

### **4 FIRST AID MEASURES:**

For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor/physician.

This product is made from organic materials which may contain living micro-organisms, including bacteria, fungi and protozoa.

Read the safety data sheet and packaging information before opening and using this product.

- Avoid breathing product dust or mists
- Always wear gloves and wash hands immediately after use.

Seek medical attention if you develop high fever or respiratory symptoms including chills, shortness of breath or cough within two weeks of using this product.

**Inhalation:** Remove to area free from risk of further exposure.  
This product may contain micro-organisms which can be harmful to health and, although it occurs infrequently, some can result in serious illness (including *Legionnaires'* disease) in people especially the elderly, smokers and those with impaired respiratory health or immunity. Serious infection is rare, however in severe cases; it can be life-threatening.  
Seek medical attention if you develop high fever or respiratory symptoms including chills, shortness of breath or cough within two weeks of using this product.  
Avoid breathing dust, vapour, aerosols and/or liquid mist (bioaerosols), inhalation may irritate, inflame or sensitise the nose, throat and lungs.

**Ingestion:** If swallowed, rinse mouth with water, do not induce vomiting. Give a glass of water to drink, seek medical advice. Seek medical attention if you develop high fever or respiratory symptoms including chills, shortness of breath or cough within two weeks of using this product.

**Eye Contact:** If in eyes, wash out immediately with water, continue to wash eye thoroughly for at least 15 minutes with clean fresh water. In all cases of eye contamination it is a sensible precaution to seek medical advice. Direct contact with this material or its dust and/or liquid mists (bioaerosols) may cause eye infection or irritation. Seek medical attention if eye irritation or infection occurs, you develop high fever or respiratory symptoms including chills, shortness of breath or cough within two weeks of using this product

**Skin Contact:** If skin contact occurs, remove contaminated clothing and wash skin with soap and water. Direct contact with this material or its dust and/or liquid mists (bioaerosols) may cause skin irritation (dermatitis), and/or skin infection. Seek medical attention if skin irritation or infection occurs, you develop high fever or respiratory symptoms including chills, shortness of breath or cough within two weeks of using this product.

**Notes to Physician:** Treat symptomatically taking into account product risks and potential for serious illness (including *Legionnaires'* disease) listed above.



## 5. FIRE FIGHTING MEASURES:

<b>Suitable Extinguishing Media:</b>	The product is of organic origin, so it can be considered combustible. If material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).
<b>Precautions for fire fighters and special protective clothing:</b>	If material is involved in a fire fighters to wear breathing apparatus and suitable protective clothing applicable to surrounding fire.
<b>Hazards from combustion products:</b>	Oxides of carbon.

## 6. ACCIDENTAL RELEASE MEASURES:

<b>Emergency Procedures:</b>	Keep unnecessary and unprotected personnel from entering the area. If contamination of sewers or waterways has occurred advise local emergency services.
<b>Personal Precautions and Protective Equipment:</b>	Refer to SDS section 7 for handling and precautionary measures. Refer to SDS section 8 for additional information and personal protection equipment.
<b>Environmental Precautions:</b>	Contain - prevent from entering sewers, waterways and/or groundwater.
<b>Methods and Materials for Containment and Clean up:</b>	Sweep up spilled material, avoid creating and breathing in dust when cleaning up, e.g. by wet sweeping, collect and store in properly labelled, sealed containers for safe disposal. If contamination of sewers or waterways has occurred advise local emergency services.

## 7. HANDLING & STORAGE:

### Precautions for safe handling and storage:

Read the safety data sheet and packaging information before opening and using this product.

Seek medical attention if you develop high fever or respiratory symptoms including chills, shortness of breath or cough within two weeks of using this product.

**Handling:** Keep out of reach of children and animals.  
This product is made from organic materials which may contain living micro-organisms, including bacteria, fungi and protozoa which can be harmful to health and, although it occurs infrequently, some can result in serious illness (including *Legionnaires'* disease) in people especially the elderly, smokers and those with impaired respiratory health or immunity. Serious infection is rare, however in severe cases; it can be life-threatening.

To reduce risks when using this product, please take the following safety precautions:

- Always wear gloves (AS/NZS 2161 standard) when handling and wash hands immediately after use.
- Work in a well-ventilated area
- Avoid inhaling product dust or mist by wearing a disposable face mask or respirator securely covering the nose and mouth (AS/NZS 1715 and AS/NZS 1716 standard), especially if:
  - Handling the product in an enclosed space or in windy conditions.
  - You are elderly or have impaired respiratory health or immunity.
  - You are working with bulk quantities.
- Open the bag carefully and direct the opening away from your face.
- Keep the product damp to reduce airborne particles such as dust and avoid creating dust when cleaning up.
- Water gardens, soil mix and potted plants gently, using a low pressure hose.
- Avoid skin, mouth and eye contact (eye protection AS/NZS 1336 standard).
- Avoid transferring product from hand to mouth.
- After work, remove any protective clothing. Wash hands, arms and face after handling.
- Do not eat, drink or smoke when using this product or in the areas where they may become contaminated with this material.
- Avoid raising soil near evaporative coolers.

Seek medical attention if you develop high fever or respiratory symptoms including chills, shortness of breath or cough within two weeks of using this product.

**Storage:** Store out of reach of children and animals.  
Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**

<b>Occupational Exposure Limits:</b>	No WES values are set by EPA or NZ Dept. of Labour Health & Safety for this substance at this time. However, Workplace Exposure Standard(s) for particulates not otherwise classified: Inhalable dust: WES-TWA 10 mg/m <sup>3</sup> Respirable dust: WES-TWA 3 mg/m <sup>3</sup>  This product is made from organic materials which may contain living micro-organisms, including bacteria, fungi and protozoa which can be harmful to health and, although it occurs infrequently, some can result in serious illness (including <i>Legionnaires'</i> disease) in people especially the elderly, smokers and those with impaired respiratory health or immunity. Serious infection is rare, however in severe cases; it can be life-threatening.
<b>Engineering Controls:</b>	Ensure ventilation is adequate to maintain low air concentrations of dust, vapour, bioaerosols and mists. Keep packaging closed when not in use.
<b>Personal Protective Equipment:</b>	<b>Respiratory Protection:</b> Use with adequate ventilation, avoid breathing dust, vapour, aerosols or mist. If there is a risk of inhalation of dust, vapour, aerosols and/or liquid mist (bioaerosols), wear a suitable particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. <b>Skin protection:</b> Avoid contact with skin. Wear standard light gloves, as specified in AS/NZS 2161 and keep product moist when handling. Wear protective clothing. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Wash contaminated clothing and other protective equipment before storage or re-use. <b>Eye protection:</b> Avoid contact with eyes. If there is a risk of exposure to dust and/or liquid mists, also wear dust resistant eye protection, as specified in AS/NZS 1336.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

<b>Appearance:</b>	Coarse Brown Solid.
<b>Odour:</b>	Organic.
<b>Solubility in water:</b>	Insoluble in water.
<b>Specific Gravity (kg/l @ 20°C):</b>	0.4 – 0.8 kg/litre (bulk density)
<b>Flash point (°C):</b>	Not applicable.

**10. STABILITY and REACTIVITY:**

<b>Chemical Stability:</b>	Stable under normal conditions of use.
<b>Conditions to avoid:</b>	Avoid contact with foodstuffs. Avoid contact with other chemicals.
<b>Incompatible materials:</b>	Incompatible with oxidising agents.
<b>Hazardous decomposition products:</b>	Oxides of carbon, oxides of phosphorus, oxides of sulphur and ammonia.
<b>Hazardous Reactions:</b>	None known.



## 11. TOXICOLOGICAL INFORMATION:

**Potential Health Effects:** This section includes possible adverse effects, which could occur if the product is not handled in the recommended manner.

This product is made from organic materials which may contain living micro-organisms, including bacteria, fungi and protozoa which can be harmful to health and, although it occurs infrequently, some can result in serious illness (including *Legionnaires'* disease) in people especially the elderly, smokers and those with impaired respiratory health or immunity. Serious infection is rare, however in severe cases; it can be life-threatening. Seek medical attention if you develop high fever or respiratory symptoms including chills, shortness of breath or cough within two weeks of using this product.

All people working regularly with these and other landscaping products should ensure that they are adequately protected against tetanus.

**Eye Contact:** Dust and/or liquid mist (bioaerosols) may irritate the eye resulting in redness and watering, or eye infection.

**Skin Contact:** Contact with skin may cause irritation and in some people may lead to skin sensitisation, dermatitis or skin infection.

**Ingestion:** Swallowing can result in abdominal discomfort. There is an increased risk of gastrointestinal infections.

**Inhalation:** Avoid breathing dust, vapour, aerosols and/or liquid mist (bioaerosols), inhalation may irritate, inflame or sensitise the nose, throat and lungs resulting in illnesses ranging from hay fever and asthma to pneumonia (eg. legionnaire's disease) and pneumonia like illnesses and aggravate pre-existing conditions such as asthma and bronchitis. This product is made from organic materials which may contain living micro-organisms, including bacteria, fungi and protozoa which can be harmful to health and, although it occurs infrequently, some can result in serious illness (including *Legionnaires'* disease) in people especially the elderly, smokers and those with impaired respiratory health or immunity. Serious infection is rare, however in severe cases; it can be life-threatening. Seek medical attention if you develop high fever or respiratory symptoms including chills, shortness of breath or cough within two weeks of using this product.

**Toxicological Data:** No LD<sub>50</sub> information available for the product.

## 12. ECOLOGICAL INFORMATION:

**Ecotoxicity:** Contain - prevent from entering sewers, waterways and/or groundwater.

## 13. DISPOSAL CONSIDERATIONS:

**Disposal methods:** Dispose of this product by using in accordance with the product label directions. Packaging disposal – Dispose of packaging in accordance with the product label directions or empty packaging, wrap in paper, place in a plastic bag and dispose safely with domestic rubbish. If wastes and/or packaging cannot be disposed of according to the product label directions or instructions above, disposal must be in accordance with your local area regulatory authorities following all applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION:

Not classified as a Dangerous Good for Transport.

## 15. REGULATORY INFORMATION:

**EPA New Zealand Approval Code:** Based on available information, not classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.



Tui Products Ltd.

Document Name:

**SAFETY DATA SHEET – NORLAKE MEDIUM BARK**

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**16. OTHER INFORMATION:**

**Date of preparation of SDS:** November 2016.

**Abbreviations in SDS:**

**EPA:** The Environmental Protection Authority of New Zealand.

**LD<sub>50</sub>:** Lethal Dose-50%. The doses of a chemical that will kill 50% of the test animals receiving it.

**WES:** Work place exposure standard set by EPA or NZ Dept. of Labour Health & Safety.

**DISCLAIMER:**

This product must be used strictly as directed. To the maximum extent permitted by law Tui Products Limited, its officers, employees, agents, distributors and retailers shall have no liability to any purchaser or user of this product, or any other person, for any loss, damage or injury (including personal injury) arising out of the use or storage of this product otherwise than in accordance with the directions for use and storage.

----- End of SDS -----