



SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

Product Name:	Norlake Blood & Bone
Recommended Use:	General Plant Fertiliser.
Manufacturing Company:	Tui Products Ltd,
Address:	Truman Lane, Mount Maunganui, New Zealand
Telephone Number:	+64 7 5752160
Emergency Telephone Numbers:	0800 POISON (0800 764 766) National Poisons Centre 111 – New Zealand Fire Service
Date of Preparation:	February 2014

2. HAZARDS IDENTIFICATION:

Dangerous Goods:	Not classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.
Hazardous Substance (HSNO):	Classified as hazardous according to criteria in the HS (Minimum Degree of Hazard) Regulations 2001.
HSNO Hazard Classifications:	6.4A.



Signal Word:	Warning
Hazard Statements:	Causes serious eye irritation.
Prevention Statements:	Read label before use. Read Safety Data Sheet before use. Wash hands, arms and face thoroughly after handling. Wear eye protection/face protection.
Response Statements:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

COMPONENT	CONCENTRATION	CAS NUMBER
Blood, meat & bone meal	60 – 100%	-
Calcium Carbonate	0 – 30%	471-34-1



4. FIRST AID MEASURES:

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

Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.
Ingestion:	If swallowed, Do NOT induce vomiting. Rinse mouth. Seek medical attention.
Eye Contact:	If in eyes, hold eyelids apart and immediately flush with cold water. Continue for at least 15 minutes. Contact a doctor.
Skin Contact:	If on skin, wash the skin well with plenty of water and soap whilst removing contaminated clothing. If skin irritation occurs seek medical advice. Wash contaminated clothing before re-use.
Notes to Physician:	Treat symptomatically.

5. FIRE FIGHTING MEASURES:

Suitable Extinguishing Media:	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).
Precautions for fire fighters and special protective clothing:	Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing.
Hazards from combustion products:	Oxides of carbon and oxides of calcium.

6. ACCIDENTAL RELEASE MEASURES:

Emergency Procedures:	Isolate area. Keep unnecessary and unprotected personnel from entering the area. If contamination of sewers or waterways has occurred advise local emergency services.
Personal Precautions, Protective Equipment and Emergency Procedures:	Refer to SDS section 7 for handling and precautionary measures. Refer to SDS section 8 for additional information and personal protection equipment to prevent contamination of skin, eyes and personal clothing.
Environmental Precautions:	Contain - prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
Methods and Materials for Containment and Clean up:	Contain product to prevent from entering soil, drains and waterways. Collect spilled product and place in properly labelled sealable container for disposal. Sweep or vacuum up product avoiding creating dust. If contamination of sewers or waterways has occurred advise local emergency services.



7. HANDLING & STORAGE:

Precautions for safe handling and storage:

Handling:	Keep out of reach of children. Avoid creating dust when handling. Avoid skin and eye contact and breathing in dust. After work, remove protective clothing and equipment, wash hands before eating, drinking, and chewing gum, using tobacco or using the toilet. Clean up spilled material and wash clothing, equipment and work area after use. Avoid static discharges.
Storage:	Store in a tightly closed original container in a cool, dry, well-ventilated area out of direct sunlight. Store away from children, animals, food, feedstuffs, drink containers, fertilisers and seeds. Keep containers closed when not in use and check regularly for spills.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Occupational Exposure Limits:	No ADE, PDE or TEL values are set by EPA for this substance at this time. No WES values are set by EPA for this substance at this time. However WES for constituent ⁽¹⁾ Calcium Carbonate (CAS 471-34-1): WES-TWA = 10mg/m ³ .
Engineering Controls:	No EEL set by EPA for this substance at this time. Ensure ventilation is adequate, good general ventilation should be sufficient for most conditions. Keep containers closed when not in use.
Personal Protective Equipment:	Avoid contact with eyes, skin and breathing in dust. Respiratory Protection: Use with adequate ventilation, avoid creating or breathing in dust. If risk of inhalation exists use AS/NZS 1715, AS/NZS1716 dust mask. Skin protection: Use rubber gloves when handling this product. Wash hands and exposed skin thoroughly with soap & water after use. Wash protective clothing thoroughly before storage or reuse. Eye protection: When applying, avoid creating dust, wear eye protection and avoid eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Brown powder.
Odour:	Non-specific
pH:	Not applicable.
Vapour Pressure (20°C):	Not available.
Relative Vapour Density (air=1):	Not available.
Boiling Point (°C):	Not available.
Freezing Point (°C):	Not available.
Solubility in water:	Insoluble in water.
Specific Gravity (g/ml @ 20°C):	Not available.
Flash point (°C):	Not available.
Upper Flammability Limit:	Not available.
Lower Flammability Limit:	Not available.
Auto Ignition Temperature (°C):	Not available.



10. STABILITY and REACTIVITY:

Chemical Stability:	Stable under normal conditions of use.
Conditions to avoid:	Avoid excessive heat. Avoid creating dust when handling.
Incompatible materials:	None known.
Hazardous decomposition products:	Oxides of carbon and oxides of calcium.
Hazardous Reactions:	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.

Eye Contact:	An eye irritant.
Skin Contact:	Contact with skin may result in irritation.
Ingestion:	Swallowing may result in nausea, vomiting and abdominal pain.
Inhalation:	Breathing in dust may result in respiratory irritation or upper respiratory tract infection.
Long Term Effects:	No information available for the product.

12. ECOLOGICAL INFORMATION:

Ecotoxicity:	Avoid contaminating waterways.
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13. DISPOSAL CONSIDERATIONS:

Disposal methods:	Dispose of this product by using in accordance with the product label directions or into landfill. Do not dispose of this product into drains, sewers or waterways. Packaging disposal – empty packaging by using the product in accordance with the product label directions. Crush empty packaging and dispose of safely with domestic rubbish. If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local area regulatory authorities following all applicable regional, national and local laws and regulations. Some local authorities offer hazardous waste collection, contact your local council for details.
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14. TRANSPORT INFORMATION:

Not classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Not classified as a Dangerous Good by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Not classified as a Dangerous Good by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.



15. REGULATORY INFORMATION:

Classified as hazardous according to criteria in the HS (Minimum Degree of Hazard) Regulations 2001.

EPA New Zealand Approval Code: HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2006.

Safety Phrases: Do not feed to sheep, cattle, deer, goats, buffaloes or other ruminant animals. This product contains or may contain ruminant protein.

16. OTHER INFORMATION:

Date of preparation of SDS: February 2014.
SDS Version: Version 2.

Abbreviations in SDS:

- ADE:** Acceptable daily exposure values set by EPA.
- EEL:** Environmental exposure standard set by EPA.
- EPA:** The Environmental Protection Authority of New Zealand.
- PDE:** Potential daily exposure values set by EPA.
- pH:** A measurement of how acidic or alkaline a material is using a scale of 1 -14. pH 1 is strongly acidic, pH 14 is strongly alkaline.
- TEL:** Tolerable exposure limit set by EPA.
- WES:** Work place exposure standard set by EPA or NZ Dept. of Labour Health & Safety.

References: (1) Workplace Exposure and Biological Exposure Indices, 6th Edition. Effective from JULY 2011. NZ Department 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 -----