

# SAFETY DATA SHEET

According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

## Section 1. Identification of the material and the supplier

Product: **Waikaitu NZBioAmino 9% Nitrogen**  
Product Use: Organic Seaweed Extract  
Restriction of Use: Refer to Section 15

New Zealand Supplier: **Waikaitu Limited**  
Address: 28 Oxford Street  
Richmond  
Nelson, 7020  
Website: www.waikaitu.com

Telephone: +64 3 970 0302  
**Emergency No: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 24 September 2019

## Section 2. Hazards Identification

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

## Section 3. Composition / Information on Hazardous Ingredients

No hazardous product as specified in Directive 67/548/EEC.  
Preparation: Liquid hydrolysate of amino acid.  
Description: Aqueous solution of amino acid hydrolysate. Amino acids and peptides obtained by enzymatic hydrolysis. Mixed with Seaweed extract.

## Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.

If on Skin Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.

If Swallowed Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

## Most important symptoms and effects, both acute and delayed

Symptoms:

Swallowing:	After swallowing: Nausea and vomiting. After uptake of large quantities: Diarrhoea.
Inhalation:	After inhalation of aerosols: Slight irritations of the mucous membranes and coughing.
Eye Contact:	Slight irritants
Skin Contact:	Slight irritants

### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Non Flammable
<b>Hazards from combustion products</b>	The material itself is harmless and hardly inflammable. Ambient fire may liberate hazardous vapours. If larger quantities of the product are on fire, the formation of nitrous gases and ammonia is possible.
<b>Suitable Extinguishing media</b>	Water, carbon dioxide, dry extinguishing media, foam.
<b>Precautions for firefighters and special protective clothing</b>	Do not stay in dangerous zone without suitable chemical protecting clothes and self-contained breathing apparatus. Contain escaping vapours with water.
<b>HAZCHEM CODE</b>	<b>None Allocated</b>

### Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel. Avoid product contact and formation of vapours/aerosols. Do not inhale vapours/aerosols.

Do not allow to enter drains and water courses.

Take up with absorption media and place in container for disposal according to local regulations (see section 13).

### Section 7. Handling and Storage

#### Precautions for Handling:

- Wear protective clothing.
- Avoid product contact and formation of vapours/aerosols.
- Do not inhale vapours/aerosols. In event of vapours/aerosols wear respiratory protection, safety glasses and gloves.
- Remove soiled and soaked clothes and wash hands and face after work.

#### Precautions for Storage:

- Protect the product from impurity or drying up.
- Temperature in stockrooms not below -5°C and above +40°C.
- Do not store in metal containers (corrosion risk).
- Keep containers tightly closed.
- Do not store together with food and luxury food, beverage and animal feed.
- It is recommended to design stockrooms so that the product is well-protected from weather factors, solar radiation, heat up, dry up and impurities.

### Section 8 Exposure Controls / Personal Protection

#### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

### Engineering Controls

Ensure adequate ventilation is available to reduce exposure.

### Personal Protection Equipment

<b>Eyes</b>	Wear goggles.
<b>Hands</b>	Use rubber or plastic gloves.
<b>Skin</b>	Closed working clothes.
<b>Respiratory</b>	Not required. Respiratory protection necessary at vapours / aerosol and wet fog formation.
<b>Hygiene</b>	Do not eat and drink at work. Remove immediately soiled and soaked clothes. Wash hands and face after work.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Aqueous solution
<b>Colour</b>	Brown
<b>Odour</b>	Product specific
<b>Odour Threshold</b>	Not available
<b>pH (original state)</b>	Approx. 4.5
<b>pH at 16 g/l H<sub>2</sub>O and 20°C:</b>	Approx. 4.5
<b>Change in physical state</b>	> 100°C evaporation of water
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not available
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Density (@20°C)</b>	1.25 g/cm <sup>3</sup>
<b>Water Solubility(@20°C)</b>	Fully water soluble in each ratio
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	The product is not spontaneously inflammable
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Possibility of hazardous</b>	Under normal conditions of storage and use, hazardous

<b>reactions</b>	reactions will not occur.
<b>Conditions to Avoid</b>	Direct solar radiation, heat up and dry up. Temperatures above + 40° C.
<b>Incompatible Materials</b>	Strong alkaline materials, strong acid materials and strong oxidizer.
<b>Hazardous Decomposition Products</b>	No decomposition if correctly used. Reacts with alkalis setting ammonia free. Thermic Decomposition - Nitrous gases and ammonia.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not applicable however after swallowing: Nausea and vomiting. After uptake of large quantities: Diarrhoea. Oral for this product = LD50 (oral): =>5000mg/kg = Non hazardous
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	After inhalation of aerosols: Slight irritations of the mucous membranes and coughing.
<b>Eye</b>	Not applicable.
<b>Skin</b>	Not applicable.

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

## Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

<b>Product:</b>	
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of drinking- water supplies.

## Section 13. Disposal Considerations

### Disposal Method:

Dispose of according to Local Regulations.

**Precautions or methods to avoid:** None known.

## Section 14 Transport Information

**This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**

**This product is NOT classified as a Dangerous Good for transport under IATA or IMDG  
This product is NOT classified as a Dangerous Good for transport (Road/Rail)**

## Section 15 Regulatory Information

This substance is NOT classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

## Section 16 Other Information

### Glossary

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

Issue Date: 24 September 2019 Review Date: 24 September 2024