

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Iperen Algae Plus**

Product Use: Fertiliser
Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticulture Ltd
Address: 10 Firth Street
Drury, 2113

Telephone: +64 9 294 8453
Fax Number: +64 9 294 7272

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 23 March 2021

Section 2. Hazards Identification

The manufacturer has stated that this substance is NOT hazardous according to Regulation (EC) No. 1272/2008 [CLP] therefore non-hazardous as per EPA Hazardous Substances (Classification) Notice 2017

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Ascophyllum nodosum ext.	100%	84775-78-0

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: Rinse cautiously with water for 15 minutes. If eye irritation persists: call doctor/physician.

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

If Swallowed: Product is not toxic if ingested. On ingestion, plenty of water or milk should be drunk. Should any discomfort occur, medical attention should be sought. Call a POISON CENTER or doctor/physician if you feel unwell.

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. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable, Non-combustible material.
Hazards from decomposition products	No special hazards arising.
Suitable Extinguishing media	Use appropriate media (water, foam, dry powder or CO ₂) for surrounding the fire. Note: Product can be slippery in liquid form or when in combination with water.
Precautions for firefighters and special protective clothing	No special firefighting clothing required. Please note, the product can become slippery when in liquid form or when in combination with water.
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Wear appropriate protective clothing.

Spills may be easily cleaned by removing as much solid as possible and washing the spill area using copious amounts of water. Loose product should not be left on the floor in damp areas due to the product becoming slippery when in combination with water.

Dispose of according to Local Regulations detailed in Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Avoid handling, as this may cause staining.
- Specific personal protective equipment is stated in section 8.

Precautions for Storage:

- Store in a cool place and out of direct sunlight.
- Do not contaminate water, food or feed by storage or disposal.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

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 2019 11TH EDITION.

Engineering Controls

There are no specific ventilation requirements. Eyewash facilities should be available.

Personal Protection Equipment

Eyes	Eye protection such as safety glasses should be worn when handling due to possible temporary staining.
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Skin	Chemically resistant gloves, e.g. rubber, neoprene, butyl, PVC or nitrile, should be worn to protect against temporary staining.
Respiratory	No specific requirements.
General	Remove all protective equipment before eating, drinking or smoking, and before entering any 'clean' areas. Hands should be washed immediately after any contact with the product. All protective equipment should be cleaned before removal where practical and before re-use – if not possible, they should be disposed of as chemical waste (refer to section 13).

Section 9 Physical and Chemical Properties

Appearance	Powder
Colour	Black
Odour	Marine like
Odour Threshold	Not available
pH	10 – 10.5
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Bulk Density	0.65 g/cm ³
Solubilities	Fully soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition Temperature	550°C
Decomposition Temperature	Not available
Viscosity	Not available

Section 10. Stability and Reactivity

Stability of Substance	Product is stable under normal circumstances. Oxidants and acids can cause degradation of the product.
Hazardous Reactions	Product is not reported to undergo hazardous reactions.
Conditions to Avoid	Oxidants and acids may cause degradation of the product.
Incompatible Materials	Oxidants and acids may cause degradation of the product.
Hazardous Decomposition Products	Not applicable.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. Significant ingestion may cause nausea and discomfort.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Very slight erythema with no other signs of irritation

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive	Not applicable.

Toxicity	
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Persistence and degradability	Product is fully biodegradable.
Bioaccumulation	Due to its biodegradability, the product presents minimal bioaccumulation potential, and therefore minimal environmental impact.
Mobility in Soil	No data available.
Other adverse effects	No data available.

Section 13. Disposal Considerations

Disposal Method:

Triple rinse and 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

Section 15 Regulatory Information

The manufacturer has stated that this substance is NOT hazardous according to Regulation (EC) No. 1272/2008 [CLP] therefore non-hazardous as per EPA Hazardous Substances (Classification) Notice 2017

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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

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

Issue Date: 23 March 2021 Review Date: 23 March 2026