

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product trade name	Root Mass Plus
Description	Plant growth biostimulant obtained by cold, physical extraction from fresh algae <i>Ascophyllum nodosum</i> , mixed with a blend of humic substances, fulvic acids and chelated iron
Manufacturer/Supplier	Oilean Glas Teoranta Ballymoon Industrial Estate Kilcar, Co. Donegal, IRELAND Tel: +353 749738860; Fax: +353 749738854 www.ogt.ie; info@ogt.ie
Emergency telephone number	Tel: +353 749738860
Use	Fertilizer

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material or Component	Seaweed extract
	Mix of humic acids, fulvic acids and potassium oxide
	Chelated iron
Preservative	Commercial mix, fertilizer to cosmetic grade. Used < 0.1% in the final product

3. HAZARDS IDENTIFICATION

Effect on / of	
Inhalation	Irritation effects to nose and throat may occur from inhalation
Eyes	Eye irritation may occur
Skin	Mild skin irritation may occur following prolonged exposure
Ingestion	Small amounts (20-30 cc) swallowed accidentally are likely to cause minimal bad effects; large quantities might cause gastrointestinal symptoms

4. FIRST AID MEASURES

Inhalation	If symptoms such as nose or throat irritation are observed, remove to fresh air
Eyes	Use eye wash medium or abundant fresh water to cleanse eyes
Skin	Wash abundantly with fresh water
Ingestion	In case large amounts are swallowed, give several glasses of drinking water and seek medical attention. Do not induce vomiting except if advised through medical assistance

5. FIRE FIGHTING MEASURES

Fire and explosion hazard	Not Applicable
Flash Point (Deg. C.)	Not Applicable (aqueous solution)
Explosive Limits in air (% volume)	Not Applicable (no explosive component)
Auto Ignition Temperture	Not Applicable (no flammable component)
Fire extinguishing media	Not Applicable
Special fire fighting procedures	Not Applicable
Unusual fire and explosion hazards	Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal protection	No special requirement
Steps to be taken if product is leaked or spilled	Surfaces can become slippery. Handle spillage as for viscous liquid. Sponge as much liquid as possible and the remaining can be washed away until surface non slippery

7. HANDLING/STORAGE

Handling	Handle and open with care. No special protective measures
Storage	Cool, dry place. Ensure that the product is not exposed to air or direct light
Shelf Life	15 months to keep the majority of nutrients active

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure	No specific exposure limits
Respiratory Protection	No special requirements
Eye protection type	Wear goggles for prolonged exposures
Protective gloves	Wear gloves for prolonged exposures
Protective clothing	No special requirements

9. PHYSICAL - CHEMICAL PROPERTIES

Appearance and Colour	Dark grey
Odour	Characteristic sugar organic smell
pH	5.5-6.5
Boiling point	102 °C
Volatile Compounds	Not applicable (no volatile components)
Vapour Pressure (mmHg)	Not determined
Density	Not determined
Melting point	Not applicable
Solubility	100% Soluble in water
Specific Gravity	Not determined
Dynamic Viscosity at 22°C	Not determined
Surface Tension	Not determined

10. STABILITY AND REACTIVITY

Stability	15 months under recommended storage conditions
Hazardous Decomposition Products	None
Hazardous Polymerization	None
Materials/Situations to avoid	None
Products formed when subjected to open flame and high temperature	None
Corrosiveness	Non corrosive
Radioactivity	Negligible

11. TOXICOLOGICAL INFORMATION

Oral acute toxicity	Not determined
Skin	Irritation may occur following prolonged exposure
Eyes	Mild irritation may occur following prolonged exposure

12. ECOLOGICAL DATA

Acute Toxicity on Green Algae (72 hours)	Not determined
Acute Toxicity on <i>Daphnia magna</i> (48 hours)	Not determined
Acute Toxicity on Zebrafish (96 hours)	Not determined
Biodegradability	100 % biodegradable
Bioaccumulation	Not applicable

13. DISPOSAL

Waste disposal method	Scoop up as much of the viscous liquid as possible and dump. The remaining can be washed away with water using dilution factor. Place the wastes in a suitable labelled container. Disposal should be in accordance with local authority regulations.
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14. TRANSPORT

Hazchem code	None
Transport	Not Applicable
Class	Not Applicable
Sub risk class	Not Applicable

15. REGULATORY INFORMATION

General	no legislation available for seaweed extracts
preservative mix	Directive 2004/42/EC
citric acid	Régulation (EC) 1129/2011 amending Annex II to Regulation (EC) 1333/2008

16. OTHER INFORMATION

The information given in this document is designed only as a guidance for safe handling, storage, use, disposal, transportation and release. This does not represent a warranty of quality specification. For more information on the quantity to use or for any other queries, contact the manufacturer.

APPROVED BY TECHNICAL MANAGER