



**Ocean**  
KNOWLEDGE

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Declan Gallagher, founder of one of the world's leading seaweed/kelp manufacturers OGT (Oilean Glas Teo) is again leading Innovation in the Seaweed Industry through his latest brainchild Ocean Knowledge. Declan from his knowledge of seaweed/kelp, his continuous involvement in Research & Development and his passion, is genuinely a world leader in seaweed/kelp product development. Declan, states categorically that the backbone of this new company Ocean Knowledge is our passion, staff, loyal customers and continuous product development.

Reflecting on two decades of experience in seaweed/kelp Product Innovation Declan states that he was fortunate to be born on the shores of Donegal in the Northern Hemisphere of Ireland right on the Atlantic Ocean and infamously what is now part of Irelands WAW "The Wild Atlantic Way". Declan reminiscences and speaks aloud when he says, never as a child when I played on the rocks amongst the seaweed/kelp did I realise that one seaweed/kelp namely *Ascophyllum Nodosum* with its high volume of nutrients and Alginates would have a worldwide influence on plant nutrition and my future in the Seaweed industry.

A key to our success at Ocean Knowledge is that our staff work closely with our customers to truly understand their problems and come up with solutions that work for them in their environment. We are very proud of the strong relationships we have with our customers and the success we have achieved with them worldwide.





*Ascophyllum nodosum* is native to our shores here in Donegal. Our crop is harvested by hand and taken just a short distance to be refined.

### Technical Specifications

→ Nitrogen (N):	0.1% w/w
→ Phosphorus (P):	0.02% w/w
→ Potassium (K):	0.29% w/w

### Presentation

Soluble liquid (SL)

### Application Rates

OCEAN GLAS
20L - 30L per Ha
4oz - 8oz per 1,000 sq feet

Our Gentle Extraction process keeps the product as close to its natural properties as possible and is 100% soluble. By applying pressure at a cooler temperature, nothing is lost to heat or over-processed. Ocean Glas is a pure, rich, dark liquid that contains as much of the bioactive molecules naturally present in *Ascophyllum nodosum* as possible. Packed full of active ingredients, Ocean Glas has excellent bio-stimulating effects on general plant health.

### Key Benefits

- Plant establishment
- Root growth & formation of adventitious roots
- Uptake of essential nutrients
- Vigour & shoot growth
- Ocean Glas improves plant adaptation and overcomes salinity
- Environmental stress alleviation (drought, freezing) through osmoprotectors
- Detoxification of oxidative stress via antioxidants (polyphenols, vitamins & pigments)
- Ocean Glas pH range: 4.2 - 4.6



### Recommended Usage

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
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Call your area representative for the application rate for any of the products in this brochure as they depend on many factors including species of grass, climate, soil/sand etc.



Seaweed has been used as fertiliser for centuries. While its benefits are known, our Ocean Glas products are tested in specific conditions, so you can be sure that it works for you, wherever you are.

## Technical Specifications

→ Nitrogen (N):	0.93% w/w
→ Phosphorus (P):	0.09% w/w
→ Potassium (K):	2.27% w/w

## Presentation

Solid - Granules

## Application Rates & Aerification Tip

Apply the granular at 0.83lbs per 10 square foot (8.3lbs per 1,000 square foot) with a fertilizer hopper. Brush or swish the granular into the holes.

Recommended applications timings:

3 - 4 applications per year

Ocean Glas Granular is rich in the bioactive molecules naturally present in *Ascophyllum nodosum*. It has excellent bio-stimulating effects on general plant health because of its many active ingredients.

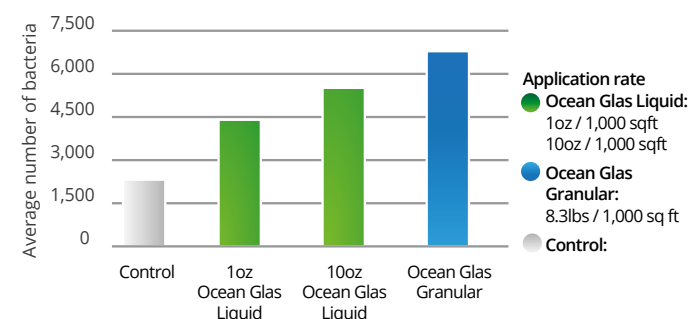
## Key Benefits

- Plant establishment
- Ideal for soil structure & plant physiology improvement
- Both fast and slow-release nutrients – more than 60 elements: N, K, Ca, CL, S, Mg, Fe, Bo, Mn, Se, Zn
- Carbon source (sugar biomass) for soil beneficial microbial life: Contains over 60% of natural sugar
- Rich in charged colloids – Improve CEC (soil ability to retain nutrients)
- Apply directly into the soil or mix with other materials such as sand or compost etc
- Increased primary root development
- Improved soil structure & shoot growth
- Improved plant adaptation and overcomes salinity stress and other environmental stress conditions
- Environmental stress alleviation (drought, freezing) through osmoprotectors

- Detoxification of oxidative stress via antioxidants (polyphenols, vitamins & pigments)

## Soil Microbial Life management

Increase Ocean Glas' application rates to improve the microbial life of soil. Ocean Glas Granular's application mixed directly into the soil also increases microbial life.



## Recomended Usage

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

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### Highly Concentrated L-α Free Amino Acids Biostimulant

#### Technical Specifications

→ L-α Free Amino Acids (Vegetable Origin)	23.0% (25.8% w/v)
→ Total N	4.6% (5.2% w/v)

#### Application Rates

OCEAN AMINO V
10L - 20L per Ha

Derived from vegetable origin, L-α Free Amino Acids are potent plant biostimulants and stress relievers. They reactivate carbohydrate and N metabolism in chemical or osmotic stress situations such as drought and salinity. Some of the L-α Free Amino Acids in Ocean Amino V are direct anti-stress compounds, while others can be used immediately by the plant to synthesise anti-stress compounds, proteins, and other essential molecules for continued growth.

#### Key Benefits

- L-α Free Amino Acids are the only form of Amino Acids used in protein synthesis
- Diverse Aminogram provides more than 17 Amino Acids needed for plant growth and stress alleviation
- L-α Free Amino Acids are Zwitterions which allow for easier penetration into the leaf
- Reactivates carbohydrate and N metabolism in situations of chemical or osmotic stress such as drought and salinity
- Includes highly active anti-oxidants able to quickly reduce and control free oxygen radicals (ROS) released during abiotic stress events



#### Recommended Usage

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
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Call your area representative for the application rate for any of the products in this brochure as they depend on many factors including species of grass, climate, soil/sand etc.



PK compound fertiliser containing the organic matter of grass after abiotic stress

## Technical Specifications

→ Total humic extract:	29.10% w/w
→ Humic acids:	14% w/w
→ Fulvic acids:	15.1% w/w
→ Free amino acids:	22.2% w/w
→ Organic nitrogen (N):	3% w/w
→ Phosphorus (P2O5) soluble in water:	16.4% w/w
→ Potassium (K2O) soluble:	18% w/w
→ Iron (Fe) Soluble in water and chelated by EDDHA:	0.1% w/w
→ Manganese (Mn) soluble in water and chelated by EDTA:	0.2% w/w
→ Zinc (Zn) soluble in water and chelated by EDTA:	0.2% w/w
→ Molybdenum (Mo) soluble in water:	0.25% w/w

## Presentation

Soluble micro-granules (WG)

## Application Rates

OCEAN HUMISTEM SG

10kg - 15kg per Ha

3.5 ounces - 5 ounces per 1000sq feet



## Recomended Usage

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Ocean Humistem SG is a root stimulant and bio-nutrient that is easily and rapidly assimilated by the plant. Highly concentrated PK, humic acids, amino acids, and microelements facilitate the turf's nutrient availability and increase the soil's overall characteristics.

## Key Benefits

- Promotes primary & secondary root development during initial stages
- Efficient anti-stress effect in adverse climatic situations (hydric or thermal stress, transplanting etc.)
- Growth stimulating effect during initial stages
- Improves water retention and physical characteristics of the soil (better soil oxygenation and aeration, drainage, aggregates formation)
- Improves fertiliser use enhancing chemical characteristics ( improved cation exchange capacity, better nutrients availability and root uptake)
- Biological improvement (microbial life, promotion of cell division)





Stimulate turf grass with essential micronutrients

## Technical Specifications

→ Magnesium (MgO), soluble in water	5.1% w/w
→ Iron (Fe), chelated by EDTA, soluble in water	4.2% w/w
→ Manganese (Mn), chelated by EDTA, soluble in water	4.2% w/w
→ Zinc (Zn), chelated by EDTA, soluble in water	0.8% w/w
→ Boron (B), soluble in water	0.9% w/w
→ Sulfur (SO <sub>3</sub> ), soluble in water	10.0% w/w

### OCEAN FE PLUS

10kg per Ha

2oz per 1000sq Feet

Ocean Fe Plus is based on iron (Fe), and manganese (Mn) chelated by EDTA and boron (B) and is soluble in water. These three elements are very important in preventing chlorosis in leaves by activating the turfgrass's enzymatic mechanisms. Essential to photosynthesis and the synthesis of several amino acids, Ocean Fe Plus is supplemented with magnesium (Mg) and sulphur (S).

## Key Benefits

- Better photosynthesis
- Activation of several enzymatic processes
- Prevention of micronutrient deficiencies
- Total and instantaneous solubility without forming lumps or sediments
- Excellent compatibility



## Recomended Usage

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

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