



**ABUNDIGRO**  
nurturing soil biology

# AGRICULTURE TECHNICAL DATA SHEETS

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ABUNDIGRO





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## DISCLAIMER:

Information provided herein is based on current knowledge and does not guarantee product performance. Users should conduct independent tests to determine suitability for their specific conditions. The manufacturer accepts no liability for damages resulting from product misuse or misinterpretation of data.

## WHAT IS UKELP?

Ukelp, a cold-pressed *Ecklonia maxima* kelp suspension, optimizes agricultural productivity by enhancing crop yield and resilience to abiotic stress, while also improving soil health. This solution enriches plants with amino acids, polysaccharides, betaines, and sterols, essential for growth and stress management, thereby promoting robust root and plant development in diverse agricultural settings.

**COLOUR & APPEARANCE:**  
Green liquid. Suspension concentrate.

## APPLICATION RATE AND INSTRUCTIONS

**1 - 5ℓ per Ha**

Apply 1 to 5ℓ per Ha (Depending on crop type, see label for specifics) as a foliar spray or soil drench every 4-6 weeks. For best results, integrate Ukelp into regular watering schedules or nutrient management plans.

### CHEMICAL ANALYSIS:

Nitrogen (N)	1,1 g/ℓ
Phosphorus (P)	96,4 g/ℓ
Potassium (K)	1,3 g/ℓ
Sulphur (S)	385 mg/ℓ
Auxins	0,287 mg/ℓ
Acidity (pH)	3.5

### INGREDIENT COMPOSITION:

<i>Ecklonia maxima</i>	99%
Cirtic acid	1%

**VOLUME:** 20L & 1000L

## ENVIRONMENTAL IMPACT

Ukelp is derived from natural organic materials and, when used as recommended, has a low environmental impact, as it biodegrades without harmful residue.

## BENEFITS OF UKELP APPLICATION

- **Enhances Crop Yield:** Boosts productivity through nutritional optimization, supporting healthier, more vigorous plant growth.
- **Mitigates Abiotic Stress:** Provides resilience against environmental stressors such as drought, salinity, and temperature fluctuations.
- **Improves Soil Health:** Enriches soil with organic matter, enhancing its structure and nutrient-holding capacity.
- **Promotes Sustainable Farming:** Supports eco-friendly practices with its natural, biodegradable composition.

## MODE OF ACTION

**Nutrient Delivery:** Supplies essential micronutrients, amino acids, and improves growth hormone synthesis.

**Stress Resistance:** Triggers stress resistance pathways, enhancing plant tolerance to adverse abiotic and biotic stress conditions.

**Soil Microbial Activity:** Stimulates beneficial soil microbes, improving nutrient cycling and root development.

**Root and Shoot Development:** Encourages vigorous root and shoot growth through natural growth promoters and hormonal activity.

## COMPATIBILITY

Ukelp can be used safely in conjunction with all products that do not disrupt beneficial biological interactions within the soil and plant ecosystem.



It is advisable to do a miscibility test prior to mixing Ukelp with other chemicals.

Do not store product in direct sunlight.

Store in a cool place.

Consult the supplier in the event of any uncertainty.

Keep away from children, uniformed people, animals and foodstuffs.

Use only as directed.

If medical advice is needed, have product SDS and container or label at hand.

Read label before use.

Dispose of the contents/containers in accordance with the current legislation on waste treatment





# GLADIATOR

Mono-silicic acid with  
boron and calcium

## WHAT IS GLADIATOR?

Gladiator offers unmatched support for structural plant health, optimising nutrient absorption and resilience against environmental stressors in agriculture. Featuring a unique blend of monosilicic acid, Boron, and Calcium, Gladiator is crucial for healthy crop development.

**COLOUR & APPEARANCE:**  
Clear liquid

## APPLICATION RATE AND INSTRUCTIONS

**Dosage: 500mℓ per Ha**

4 - 6 Applications per season based on crop needs.

**Dilution for Spray:**

Mix in 300 - 1 000ℓ of water per Ha. Add Gladiator to water while stirring, then add other foliar products as necessary. Use within 4 hours.

**Root application dilution:**

Weekly use at 1:5 000 dilution;  
for every watering, dilute 1:10 000.

## \*CHEMICAL ANALYSIS:

Mono-silicic acid	2,5%
Boric acid	1,2%
Calcium Chloride	25%
Potassium chloride	0,8%
Polythylene glycol 400	35-45%
Demineralised water	30-40%

## INGREDIENT COMPOSITION:

Calcium (CaO)	8%
Silicon (Si)	0,8%
Boron (B)	0,2%

**VOLUME:**

**1L & 5 L**

## ENVIRONMENTAL IMPACT

Gladiator is designed for minimal environmental footprint, supporting sustainable agricultural practices.

## BENEFITS OF GLADIATOR APPLICATION

- **Structural Integrity:** Strengthens cell walls and vascular system for better water management.
- **Stress Resistance:** Enhances resilience against pests, diseases, and environmental stresses.
- **Calcium Uptake:** Facilitates rapid absorption of calcium, improving plant health and produce firmness.
- **Shelf Life Extension:** Contributes to longer shelf life and better market value of produce.
- **100% Bioavailable Silicon:** Provides a stable, plant-accessible form of silicon for immediate benefits.

## MODE OF ACTION

**Nutrient Management:** Facilitates absorption and transport of essential nutrients such as Calcium, Phosphorus, Potassium, Magnesium, and others, promoting balanced plant nutrition.

**Calcium Correction:** Rapid solution for Calcium deficiencies, fast uptake enhancing cell wall and vascular system integrity.

**Resistance Enhancement:** Silicon deposition in the plant cuticle strengthens defense against fungal, bacterial, and insect attacks by bolstering the plant's natural barriers.

**Transpiration Reduction:** Minimizes leaf epidermal transpiration, optimizing internal water management.

## COMPATIBILITY

Gladiator seamlessly integrates with conventional foliar treatment regimens.



Keep away from direct sunlight.

Store at a temperature between 15°C and 30°C.

P102 Keep out of reach of children.

P280 Wear protective gloves / eye protection.

P303+P361+P353 **IF ON SKIN (OR HAIR):** Take off immediately all contaminated clothing.

Rinse skin with water [or shower].

P305+P351+P338 **IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local/regional/international regulations.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.





# CHAMPION

Soil Conditioner

## WHAT IS CHAMPION?

Champion serves the agriculture sector as a nutrient-rich protein cocktail, specifically designed to enhance plant vitality, colour, quality, and yield through organic means. Comprising 55% protein hydrolysate, 21% fulvic acid, 21% Ukelp, flavonoids from Genesis C4L Technology, and citric acid, Champion provides a comprehensive nutrient boost. It ensures a balanced supply of essential amino acids and microelements for optimal plant growth.

**COLOUR & APPEARANCE:**  
White, HDPE (can also include colour brown)

## APPLICATION RATE AND INSTRUCTIONS

10ℓ per Ha

Dilute and apply 10ℓ per Ha monthly, suitable for both foliar application and soil incorporation to meet the specific needs of various crops.

### CHEMICAL ANALYSIS:

Total Nitrogen (N)	11.11 g/ℓ
Phosphorus (P)	1 295.37 mg/ℓ
Potassium (K)	1 882.23 mg/ℓ
Sulfur (S)	5 303.52 mg/ℓ
Acidity (pH)	3.06 Neat at 20,4°C

### INGREDIENT COMPOSITION:

Protein hydrolysate:	55%
Fulvic acid solution:	21%
<i>Ecklonia maxima</i> kelp suspension	21%
C4L Technology (Flavonoids)	2%
Citric acid	1%

**VOLUME:**

1L



COMPLIANCE: Approved for restricted use in organic systems in accordance with EC regulation 834/2007 and 889/2008 by Organic Farmers & Growers.

## BENEFITS OF CHAMPION APPLICATION

Champion boosts crop yields, improves produce quality, and enhances soil health. It fosters a reduction in synthetic fertiliser use, supporting eco-friendly and sustainable farming practices.

### MODE OF ACTION

**Nutrient Absorption:** Enhances nutrient uptake, supporting vital growth and development.

**Stress Defence:** Boosts resilience to abiotic and biotic stresses, securing plant health.

**Photosynthesis Boost:** Amplifies photosynthetic efficiency for vibrant crop colour and vigour.

**Soil Vitality:** Promotes beneficial soil microbes, enriching the root environment for healthier crops.

### ENVIRONMENTAL IMPACT

Champion is approved for restricted use in organic systems and is designed to minimize environmental impact.

### COMPATIBILITY

Champion can be used safely in conjunction with all products that do not disrupt beneficial biological interactions within the soil and plant ecosystem.



#### SAFETY AND HANDLING

**Storage:** Store in a cool, dry place away from direct sunlight.

**Handling:** Follow safety instructions on the product label.

**Disposal:** Dispose of according to local regulations.

**Storage Life:** two years from manufacture

Causes eye irritation.

Causes skin irritation.

Keep out of reach of children.

Read label before use.

Wash hands thoroughly after handling.

If skin irritation occurs: Get medical attention.

#### 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.





# SUPER SURFER

## Adjuvant

## WHAT IS SUPER SURFER?

Super Surfer revolutionises foliar application techniques in agriculture, ensuring uniform nutrient delivery and optimal plant health. As a nature-based surfactant, Super Surfer enhances foliar application efficiency, offering improved coverage, nutrient absorption, and pH adjustment for healthier crops.

**COLOUR & APPEARANCE:**  
Dark red liquid.

## APPLICATION RATE AND INSTRUCTIONS

**80-120ml per 100l of water**

For optimal results, use an average of 80-120ml of Super Surfer per 100l of water.

1. Fill the spray tank to **50% with water** before adding Super Surfer.
2. Observe the **change of colour** of the solution to slightly pink.
3. Depending on the hardness of the water, you should add the amount of product that will lead to the **desired pH of the water** – about 5.5.
4. To do this, follow the colour scale given at the bottom of the label.
5. If you are not able to determine the colour gradient 100ml per 100l is the average application rate.



Hard Water  
pH 7 - 8



Water with partially  
lowered pH 6- 7



Appropriate Water  
pH 5.5 - 6.0



Water with too  
low pH

## CHEMICAL ANALYSIS:

Nitrogen (N)	4%
Phosphorus pentoxide (P2O5)	21%

**VOLUME:**

**1L & 5L**

## BENEFITS OF SUPER SURFER APPLICATION

Super Surfer serves to enhance the quality and wetting ability of irrigation water, vital for optimizing the effectiveness of foliar sprays. By lowering both the pH level and surface tension, it guarantees improved wettability of the foliar spray and facilitates deeper water penetration.

## MODE OF ACTION

**Enhanced Spread ability:** Improves spray distribution and soil water penetration, ensuring uniform application.

**pH Optimization:** Buffers spray and irrigation water to pH 5.5, enhancing foliar feed efficacy.

**Nutrient Enrichment:** Supplies vital macronutrients (N, P) for plant nourishment and growth.

**Wetting Efficiency:** Lowers surface tension for better wettability and deeper irrigation water penetration

## ENVIRONMENTAL IMPACT

Super Surfer is classified with a mild hazard level due to its nature-inspired efficacy. When utilized as directed, it ensures minimal environmental disturbance by decomposing into non-toxic byproducts over time.

## COMPATIBILITY

Super Surfer can be also used with all foliar fertilisers and pesticides, and organic bio-stimulants.



**EXPIRY TIME:** 2 years.

**UFI: VC00-YOGE-700J-F4RU**

H314: Causes severe skin burns and eye damage.

P260: Do not breathe dust/ fumes/gas /mist/vapours/spray

P264: Wash thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361 + P353: **IF ON SKIN (OR HAIR):** Remove / Take off immediately all contaminated clothing.

P305 + P351 + P338 + P310: **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician.

P405: Store locked up.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.







## WHAT IS OXYAGRI?

OxyAgri offers an innovative approach to boosting agricultural productivity by enhancing soil aeration, nutrient uptake, and crop health. This advanced solution optimizes soil structure, water percolation, and microbial activity, leveraging oxygen release to revitalize and enrich farmland for sustainable, higher yields.

OxyAgri is an innovative solution designed to improve soil structure, promote efficient water percolation, and stimulate the microbial activity essential for a thriving agricultural ecosystem. It leverages the natural power of oxygen release to rejuvenate and enrich soil, making it more fertile and productive.

**COLOUR & APPEARANCE:**  
Clear to light brown.

## APPLICATION RATE AND INSTRUCTIONS

### 10 - 20ℓ per Ha

For agricultural use, apply OxyAgri at a rate of 10 to 20 litres per hectare, once per month, through soil drenching techniques. Apply OxyAgri at a rate of 5% concentration to foliar spray to support systemic acquired resistance. Adjust application based on crop type and soil conditions for optimal results.

### CHEMICAL ANALYSIS:

Sodium (Na)	25,2 g/ℓ
Potassium (K)	5,93 mg/ℓ
Calcium (Ca)	16,9 mg/ℓ
Hydrogen Peroxide (H <sub>2</sub> O <sub>2</sub> )	Less than 2%
Acidity (pH)	7,5

**VOLUME:** 20L to 1000L

## ENVIRONMENTAL IMPACT

**Non-toxic Composition:** OxyAgri is designed to be safe for the environment, non-toxic to soil and aquatic organisms, and supportive of plant growth.

**Toxicology (Adhering to Usage Guidelines):**

**Toxin-Free:** No Toxins Detected

**Germination Guarantee:** 100% Seed Germination Success

**Plant-Friendly:** No Phytotoxicity for Healthy Growth

## BENEFITS OF OXYAGRI APPLICATION

- **Enhanced Soil Aeration:** Promotes optimal oxygen levels in soil for vigorous root development.
- **Improved Water Percolation:** Facilitates efficient water infiltration, reducing surface waterlogging.
- **Organic Breakdown:** Accelerates organic matter breakdown, mitigating thatch build-up for healthier turf.
- **Compaction Relief:** Alleviates soil compaction, enhancing porosity and root penetration.

## MODE OF ACTION

**Oxygen Release:** Stabilized oxygen formulation increases soil oxygenation, stimulating aerobic microbial activity.

**Organic Decomposition:** Catalyzes the breakdown of organic matter, improving nutrient availability and soil structure.

**Enzymatic Activation:** Invokes peroxidase enzymes, facilitating the conversion of organic compounds, enhancing soil fertility.

**Microbial Stimulation:** Encourages beneficial microbial growth, vital for nutrient cycling and root health.

## COMPATIBILITY

OxyAgri can be used safely in conjunction with all products that do not disrupt beneficial biological interactions within the soil and plant ecosystem.



Causes serious eye irritation.

Causes skin irritation.

Keep out of reach of children.

Read Label before use.

### PRECAUTIONARY STATEMENTS:

Wash hands thoroughly after handling.

Wear protective gear and follow safety instructions.

**IF ON SKIN:** Wash with plenty of water.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**IF SKIN IRRITATION OCCURS:** Get medical attention.

**IF EYE IRRITATION PERSISTS:** Get medical advice/attention.

Take off contaminated clothing and wash before reuse.



## WHAT IS MANNA 10:5:7?

Manna 10:5:7 is a highly effective, organic-based agricultural liquid fertilizer. It is formulated to provide essential nutrients, enhance plant resilience, and improve soil health. The product integrates cutting-edge Genesis C4L technology and a consortium of beneficial *Bacillus* strains, optimized to support vigorous plant growth and high yield.

**COLOUR & APPEARANCE:**  
Dark brown, homogeneous liquid

## APPLICATION RATE AND INSTRUCTIONS

### General rate: 10 - 20ℓ per Ha

Varying based on crop type, soil condition, and plant stage.

**Application timing:** Apply during early growth stages, before flowering, and pre-harvest to optimize nutrient uptake and stress resilience.

**Method:** Suitable for foliar application and soil drench.

**Frequency:** Bi-weekly, monthly or as needed based on crop requirements and environmental conditions.

## INGREDIENT COMPOSITION:

- Protein hydrolysate
- Natural NPK (Nitrogen, Phosphorus, Potassium)
- Full Natural Micro and Trace Elements
- Amino Acids
- Seaweed Extracts
- Humic and Fulvic Acids
- **Beneficial *Bacillus* Strains:** *Bacillus Megaterium*, *Bacillus Amyloliquefaciens*, *Bacillus Subtilis*, *Bacillus Licheniformis*, *Brevibacillus Laterosporus*
- **Genesis C4L Technology:** A proprietary blend of flavonoids and plant extracts

## BENEFITS OF MANNA APPLICATION

- Enhances nutrient uptake and efficiency
- Improves stress tolerance against abiotic and biotic factors
- Promotes robust root development and plant growth
- Increases yield and improves crop quality
- Improves photosynthesis and up and down gene regulation
- Enhances soil structure and microbial activity
- Reduces dependency on chemical inputs

## MODE OF ACTION

Manna 10:5:7 works through several mechanisms:

- **Nutrient Supply:** Directly provides essential macro and micronutrients.
- **Root Stimulation:** Amino acids and seaweed extracts enhance root growth and function.
- **Soil Health:** Humic and fulvic acids improve soil structure and nutrient availability.
- **Stress Resilience:** Genesis C4L technology induces systemic acquired resistance in plants, enhancing tolerance to stress and improves photosynthesis.
- **Microbial Enhancement:** *Bacillus* strains promote a healthy soil microbiome, aiding in nutrient cycling and disease suppression.

## COMPATIBILITY

Manna 10:5:7 is compatible with most common agricultural inputs. However, it is advisable to conduct a jar test or consult with a technical advisor when mixing with other chemical agents for the first time. Avoid mixing with highly acidic or alkaline products without prior testing.

### VOLUME:

**20L to 1000L**

## CHEMICAL ANALYSIS:

CHEMICAL ANALYSIS:				Cr (Chromium)		368,31 mg/kg
N (Total Nitrogen - DUMAS)		9,7%	Fe (Iron)	9,7%	As (Arsenic)	<6,15 mg/kg
Fulvic Acid		6,3%	Mn (Manganese)	6,3%	Hg (Mercury)	<1,25 mg/kg
Humate		13,3%	Cu (Copper)	13,3%	Pb (Lead)	6,56 mg/kg
Ca (Calcium)		3%	Zn (Zinc)	3%	Se (Selenium)	1,83 mg/kg
Mg (Magnesium)		3,4%	B (Boron)	3,4%	pH	7.5
K (Potassium)		7,31%	Mo (Molybdenum)	7,31%	Calculated Carbon	25,39%
Na (Sodium)		477,1 mg/kg	Al (Aluminium)	4943,79 mg/kg	C:N	3.9:1
S (Sulphur)		0,15%	Ni (Nickel)	165,81 mg/kg	Moisture	60°C: 31,31%
P (Phosphorus)		4,6%	Cd (Cadmium)	1,85 mg/kg	Ash	56,34%



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## **COMPANY ADDRESS & CONTACT DETAILS**

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