

BioKelp

Plant Stress Management™
Reg No: K6775 Act 36 of 1947



AFRI COMPLIANCE
CERTIFICATION NO:
AC/P/2018/143

We confirm that Agrilibrum's Manufacturing Plant and Product range conforms to the standards as set down by Afri Compliance Agricultural enhancement product protocols and is certified in terms of:

- Good manufacturing practices
- Quality assurance and traceability
- Good corporate governance
- Risk management and Bio Security

MANUFACTURED IN SOUTH AFRICA

BioKelp is an Agrilibrum core **Plant Stress Management®** product formulated to support the biochemical anti-oxidant system, protecting the chlorophyll and mitochondria in plant cells to ensure optimal photosynthetic activity and production.

BioKelp contains *Ecklonia* Kelp and metabolic elicitors that improve metabolic activity and specific amino acids for chelating cations that enhances foliar uptake and mobility of nutrients within the plant.

The **BioKelp** formulation is based on Plant Physiological principles with a wide range of trials and proven scientific results (see: Malan et al, Plant Science 69 (1990).

Product Characteristics:

BioKelp is a plant growth stimulation and cell membrane protection product that should be used simultaneously with **BioPhos Repro** (fuel for energy) and **FulMax** as wetter, spreader, re-wetter and uptake enhancer.

BioKelp is highly effective in both the young active growing stages as well as the reproductive growth phases of the plant.

Directions for use:

BioKelp is compatible with most agrochemical products but it is recommended that a compatibility drinking glass test be done before mixing with other chemicals.

Do not mix **BioKelp** with highly alkaline or Calcium containing products.

Spray solution water must be buffered between pH 4.5 and 5.5.

Application concentration 1% to 3% (1 to 3 ℓ / 100 ℓ water).

Application concentrations should not be lower than 1% for maintenance applications and should not exceed the maximum of 3% for rectification of deficiency problems.

BioKelp should be applied in a tank mix with **BioPhos Repro** (1:1 ratio).

Use **FulMax (0.1%, 100mℓ/100ℓ water)** in the spray mixture as wetter/spreader/re-wetter to ensure efficient uptake of the nutrients through the leaf surface.

Composition:

| | |
|-----------------------------|------------|
| Nitrogen (N) | 40.4 g/kg |
| Phosphorous (P) | 10.4 g/kg |
| Potassium (K) | 26.0 g/kg |
| Magnesium (Mg) | 0.9 g/kg |
| Zinc (Zn) | 1842 mg/kg |
| Iron (Fe) | 1140 mg/kg |
| Manganese (Mn) | 798 mg/kg |
| Copper (Cu) | 675 mg/kg |
| Boron (B) | 895 mg/kg |
| Molybdenum (Mo) | 171 mg/kg |
| Amino Acids | 1% |
| <i>Ecklonia</i> Kelp | 20% |

Product Properties:

| | |
|--------------------|-------------|
| S.G: | 1.14 ± 0.1 |
| pH: | 3.3 ± 0.1 |
| Appearance: | Light brown |

Storage

Storage temperature: 13°C - 25°C.

Store in a cool dry area

Do not store in direct sunlight.

Packaging: 20ℓ - 1000ℓ

In the case of overhead irrigation, refrain from irrigating the treated crop for at least 12 hours.

Do not spray on plants that are wilted spray early morning or late afternoon.



FERTASA
Fertilizer Association of Southern Africa

Agrilibrum is a member of FERTASA and is certified for compliance in terms of set standards audited by Afri Compliance as stipulated in the FERTASA code of conduct.

Certificate Number: FERT-2018-08

Whilst every care is taken during the manufacturing of this product no responsibility can be taken by the manufacturer for any damage, loss or any other result due to the use of this product.

Registered, Manufactured & Distributed by Agrilibrum (PTY) Ltd
Suite 120, Private Bag X1, Melkbosstrand, 7437, Western Cape, South Africa
| 021 553 4867 | www.agrilibrum.co.za

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Total tank concentration should never be lower than 0.75% (750mℓ/100ℓ) and preferably 1 to 1.5% (1 to 1.5ℓ/100ℓ).

| Crop | Max rate/ha | Rate /100 ℓ water | Remarks |
|--|---|--|--|
| Pome Fruit: Apples, Pears | BioKelp can be applied at a 1:1 ratio with BioPhos Repro Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency. | Apply 375 - 750mℓ BioKelp plus 375 - 750mℓ BioPhos Repro per 100ℓ tank solution. | First application 2 weeks after first flush with 10 to 21day intervals up to end of harvest. 50% wetting sufficient. |
| Stone fruit: Apricots, Peaches, Plums | | | |
| Sub-Tropical Fruit: Mango, Avocado, Macadamia, Pecan, Bananas, Litchis | | | |
| Citrus | | | |
| Grapes: Table grapes Wine grapes | BioKelp can be applied at a 1:1 ratio with BioPhos Repro Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency. | Apply 375 - 750mℓ BioKelp plus 375 - 750mℓ BioPhos Repro per 100ℓ tank solution. | First application between flowering and fruit set. Last application no later than veraison for table grapes and during the lag phase (berry / pea size) for wine grapes. |

Recommendations are also based on requirements for different crop types.

Contact your **Agrilibrum** representative to obtain a crop specific Plant Stress Management™ recommendation.