BioDynoCMZ

Plant Stress Management M Reg No: K3735 Act 36 of 1947 AFRI COMPLIANCE CERTIFICATION NO: AC/P/2018/143 We confirm that Agrilibrium'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

BioDynoCMZ is a liquid water soluble foliar nutrient chelated formulation of Zinc, Manganese, Copper, Boron, Molybdenum, Cobalt and Nickel that can be used on all crops where deficiencies of these elements are prevalent. **BioDynoCMZ** contains *Ecklonia* Kelp, PhytoFulvic acid and specific amino acids for chelating cations for optimal uptake and mobility of the nutrients in the plant.

Product Characteristics:

Zinc, Manganese and Copper are essential for chlorophyll formation, energy production and form an integral part of the anti-oxidant system that is responsible for the protection of the chloroplast and mitochondrion against oxidative damage during stress conditions.

Molybdenum, Cobalt and Nickel are essential to optimize nitrogen fixation specifically in leguminous crops and to improve nitrogen metabolism in crops in general.

BioDynoCMZ should be applied simultaneously where applicable, with foliar applications of **DynoMoB**, **BioPhos Repro** or **KTrain**.

Directions for use: Use only as directed. Shake well before use.

An Amino and PhytoFulvate chelated product, a slight residue might be present that will dissipate after shaking of the container.

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

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

Do not mix **BioDynoCMZ** with highly alkaline materials.

Application concentration 0.75% to 2% (750mℓ to 2ℓ / 100 ℓ water).

Application concentrations should not be lower than 0.75% for maintenance applications and should not exceed the maximum of 2% for rectification of deficiency problems.

When used in combination with other products that might pose a phytotoxic risk, the total spray concentration should not exceed 1.5%

Composition:			
Zinc (Zn)	24590 mg/kg		
Manganese (Mn)	41140 mg/kg		
Copper (Cu)	14988 mg/kg		
Boron (B)	1958 mg/kg		
Cobalt (Co)	178 mg/kg		
Nickel (Ni)	187 mg/kg		
Molybdenum (Mo)	761 mg/kg		
Amino Acids	5%		
Ecklonia Kelp	10%		
PhytoFulvate	4%		
Product Properties:			
S.G:	1.28 ± 0.02		
S.G: pH:	1.28 ± 0.02 3.1 ± 1		
S.G: pH: Appearance:	1.28 ± 0.02 3.1 ± 1 Light brown		
S.G: pH: Appearance:	1.28 ± 0.023.1 ± 1Light brownslightly murky		
S.G: pH: Appearance: Storage:	$\frac{1.28 \pm 0.02}{3.1 \pm 1}$ Light brown slightly murky		
S.G: pH: Appearance: Storage: Storage temperature:	1.28 ± 0.02 3.1 ± 1 Light brown slightly murky 13°C - 25°C.		
S.G: pH: Appearance: Storage: Storage temperature: Store in a cool dry area	1.28 ± 0.02 3.1 ± 1 Light brown slightly murky $13^{\circ}\text{C} - 25^{\circ}\text{C}.$		
S.G: pH: Appearance: Storage: Storage temperature: Store in a cool dry area Do not store in direct sunligh	1.28 ± 0.02 3.1 ± 1 Light brown slightly murky 13°C - 25°C. t.		
S.G: pH: Appearance: Storage: Storage temperature: Store in a cool dry area Do not store in direct sunligh Packaging: 20&-10004	1.28 ± 0.02 3.1 ± 1 Light brown slightly murky 13°C - 25°C. t.		

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





Agrilibrium 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.



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Optimal application dosage concentration based on dosage response results

Total tank concentration should never be lower than 0.75% (750me/100e) and preferably 1 to 2% (1 to 2e/100e). General Recommendation:

Сгор	Max rate/ha	Rate /100€ water	Remarks
Pome Fruit: Apples Pears Stone fruit: Apricots, Peaches, Plums Sub-Tropical Fruit: Mango, Avocado, Macadamia, Pecan, Bananas, Litchis Citrus:	0.75% - 2% BioDynoCMZ Add 100 - 200 m&/100& FulMax to improve uptake and efficiency.	For rectification of deficiencies: 750m& - 2000m& BioDynoCMZ per 100& tank solution OR For growth stimulation and maintenance up to 500m& BioPhos plus 1000m& BioDynoCMZ plus 250m& BioDynoMob /100 & tank solution	Apply as a medium to low volume (500& -1000 &) foliar spray in a regular program commencing during spring. First application 2 weeks after first flush with 14 to 21-day intervals up to end of harvest. 50% wetting sufficient.
Grapes: Table grapes Wine grapes	0.75% - 2% BioDynoCMZ Add 100 – 200 ml/100& FulMax to improve uptake and efficiency.	For rectification of deficiencies:750m& - 2000m& BioDynoCMZ plus 200m& BioDynoMob 100& tank solution OR For growth stimulation and maintenance up to 500m& BioPhos plus 1000m& BioDynoCMZ plus 250m& BioDynoMob /100 & tank solution	Apply as a medium to low volume (500& -1000 &) foliar spray. First application between flowering and fruit set. Last application no later than veraison for tablegrapes and during the lag phase (berry is pea size) for wine grapes.
Root Vegetables: Potatoes Sweet Potato Other Vegetables: Tomatoes, Peppers	0.75% - 2% BioDynoCMZ Add 100 - 200 m@/100@ FulMax to improve uptake and efficiency.	For rectification of deficiencies: 500m& - 2000m& BioDynoCMZ plus 200m& BioDynoMob per 100& tank solution OR For growth stimulation and maintenance up to 500m& BioPhos plus 1000m& BioDynoCMZ plus 250m& BioDynoMob /100 & tank solution	Apply as a medium to low volume (1008- 2508) foliar spray in a regular program commencing 2 weeks after germination or from 4 leaf stage onwards. Apply at least once every 14 days during the growing season.
Grain: Wheat, Maize, Canola	0.75% - 2% BioDynoCMZ Add 100 - 200 m@/100@ FulMax to improve uptake and efficiency.	For rectification of deficiencies: 750m& - 2000m& BioDynoCMZ OR For growth stimulation and maintenance up to 500m& K Train plus 1000m& BioDynoCMZ per 100& tank solution	First application 2-3 weeks after germination (4-5 leaf stage). Follow up application at flag leaf stage (if possible).



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