

ZincTrain

Plant Stress Management™

Reg No B3611 Act 36 of 1947



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

We confirm that Agrilibrum Manufacturing Facility 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**

ZincTrain is a biological water soluble, highly penetrating, foliar Zinc amino chelate product.

It is used as a foliar nutrient on crops to prevent and/or correct Zinc deficiencies and related plant physiological disorders like hormone imbalances (auxin synthesis) and sub-optimal photosynthetic activity (chlorophyll formation and protection). Zinc is a critical element for normal hormonal function as well as the normal functioning of the anti-oxidant system in plants in order to detoxify oxygen radicals being formed during stress situations.

DIRECTIONS FOR USE: Shake well before use.

ZincTrain is compatible with most agrochemical products (except for products containing sulfur and phosphorous in solution) but it is recommended that a compatibility drinking glass test be done before mixing with other chemicals. Do not mix **ZincTrain** with highly alkaline materials. Spray solution water must be buffered between pH 4.5 and 5.5.

NOTE: Never apply ZincTrain just before or during flowering, when applying to Pome Fruit.

First applications on Pome fruit at concentration rates not exceeding 0.25% (250 mL /100L water) can be done 3 – 4 weeks after fruit set.

Application concentration excluding Pome fruit 1% to 2.5% (1L to 2.5L /100L water).

Application concentrations should not be lower than 1% for maintenance applications, up to a maximum spray concentration (including all other foliar products in the same tank mix) of 2.5%.

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

Product Characteristics:

Zinc Train is a plant physiological treatment and will be effective on all plants where Zn is deficient.

Zinc is a critical element for normal hormonal function as well as the normal functioning of the anti-oxidant system in plants in order to detoxify oxygen radicals being formed during stress situations. These are important **Plant Stress Management™** actions.

Composition:

Zinc (Zn)	69 g/kg
Boron (B).	339 mg/kg
Amino Acids	6.2%

Product Properties:

S.G:	1.21 ± 0.02
pH:	4.9 ± 0.1
Appearance:	Dark brown, clear solution

Storage:

Storage temperature: 13°C - 25°C.

Store in a cool dry area

Do not store in direct sunlight.

Apply foliar spray during the cool periods of the day.

Do not apply to wilted plants/leaves

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



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.

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Optimal application dosage concentration based on dosage response results

Total tank concentration should never be lower than 0.75% (750mℓ/100ℓ) and preferably 1.5% (1.5ℓ/100ℓ) with the exception of Pome fruit.

General Recommendation:

Crop	Max rate/ha	Rate /100ℓ water	Remarks
Pome Fruit: Apples Pears	0.25% ZincTrain only after fruit set. When deficient, application should be done at least 6 – 8 times during season. Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	250mℓ ZincTrain plus 100mℓ FulMax /100ℓ tank solution	Apply as a medium to low volume (500ℓ -1000 ℓ) foliar spray in a regular program commencing during spring (after bud break). First application 2 weeks after first flush with 14 to 21 day intervals up to 3 weeks before harvest. 50% wetting sufficient. Note restrictions for use on apples and pears.
Stone Fruit: Apricots, Peaches, Plums	0.5% - 0.75% ZincTrain in addition to <i>Plant stress</i> and <i>growth stimulation treatments</i> with BioKelp, BioPhos and BioDynoMoB . Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	250-500mℓ BioKelp plus 250-500mℓ BioPhos plus 500-750mℓ ZincTrain plus, 250mℓ BioDynoMoB .	
Sub-Tropical Fruit: Mango, Avocado, Macadamia, Pecan, Bananas, Litchis		Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	
Citrus:			
Grapes: Table grapes Wine grapes	0.5% - 0.75% ZincTrain in addition to <i>Plant stress</i> and <i>growth stimulation treatments</i> with BioKelp, BioPhos and BioDynoMoB . Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	250-500mℓ BioKelp plus 250-500mℓ BioPhos plus 500-750mℓ ZincTrain plus, 250mℓ BioDynoMoB . Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	Apply as a medium to low volume (500ℓ -1000 ℓ) foliar spray. First application between flowering and fruit set. Last application no later than veraison for table grapes and during the lag phase (berry is pea size) for wine grapes.
Root Vegetable: Potatoes Sweet potato	0.5% - 0.75% ZincTrain in addition to <i>Plant stress</i> and <i>growth stimulation treatments</i> with BioKelp, BioPhos and BioDynoMoB . Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	250-500mℓ BioKelp plus 250-500mℓ BioPhos plus 500-750mℓ ZincTrain plus, 250mℓ BioDynoMoB .	Apply as a medium to low volume (100ℓ- 250ℓ) 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.
Other Vegetables: Tomatoes, Peppers		Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	
Grain: Wheat Maize Canola Oats Lucerne Beans Soybeans	0.5% - 0.75% ZincTrain in addition to <i>Plant stress</i> and <i>growth stimulation treatments</i> with BioKelp, BioPhos and BioDynoMoB . Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	250-500mℓ BioKelp plus 250-500mℓ BioPhos plus 500-750mℓ ZincTrain plus, 250mℓ BioDynoMoB Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	First application 2-3 weeks after germination (4-5 leaf stage). Follow up application 4-6 weeks later (Flag leaf stage for wheat, stalk borer stage for maize).

Recommendations are based on requirements for different crop types.

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



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