

IronTrain

Plant Stress Management™

Reg No. B5188 Act 36 of 1947



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

We confirm that AgriLibrium 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**

IronTrain is a highly penetrating liquid Iron amino acid chelate for use as a foliar nutrient on crops to prevent and / or correct Iron deficiencies and related plant physiological disorders like sub-optimal photosynthetic activity (chlorophyll formation and protection) and organelle protection for anti-oxidant activity.

Product Characteristics:

Iron is related to chlorophyll development and function. It plays a role in energy transfer within the plant and is a constituent of certain enzymes and proteins and act as a catalyst in numerous biochemical reactions in the plant. Iron functions in plant respiration and plant metabolism. These are important Plant Stress Management™ actions.

IronTrain is taken up efficiently as a foliar spray and should be used on all crops to rectify Iron deficiencies. It can be applied simultaneously where necessary with foliar applications of **BioDynoCMZ, BioKelp, BioPhos** and **Train** products

DIRECTIONS FOR USE: Use only as directed. Shake well before use.

IronTrain 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 **IronTrain** with highly alkaline products.

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

Application concentration should never be lower than **1% (1ℓ per 100ℓ water)** for maintenance applications up to a maximum spray concentration of **2%** for rectification of deficiency problems (**2ℓ per 100ℓ water**).

Composition:

Iron (Fe)	64000 mg/kg
Zinc (Zn)	840 mg/kg
Boron (B)	410 mg/kg
Amino acids	6%

Product Properties

S.G:	1.25 ± 0.02
pH:	4.4 ± 0.1
Appearance:	Light Brown

Storage:

Storage temperature: 13°C - 25°C.

Store in a cool dry area

Do not store in direct sunlight.

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.

Note in the case of crops with a thick cuticle or wax layer (e.g. Brassica's and onions), use at least 0.5% FulMax (500mℓ per 100ℓ water).

Apply foliar spray during 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.



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.

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).

General Recommendation:

Crop	Max rate/ha	Rate /100ℓ water	Remarks
Pome Fruit: Apples Pears	0.25% IronTrain in addition to <i>Plant stress and growth stimulation treatments</i> with BioKelp, BioPhos and BioDynoMoB only at least 14 days 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 IronTrain plus 250-500mℓ BioKelp plus 250-500mℓ BioPhos plus 250mℓ BioDynoMoB plus 100mℓ FulMax /100 ℓ 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 21day intervals up to 3 weeks before harvest. 50% wetting sufficient. Note restrictions for use on apples and pears. Do not apply during flowering
Stone Fruit: Apricots, Peaches, Plums	0.5% - 0.75% IronTrain in addition to <i>Plant stress and growth stimulation treatments</i> with BioKelp, BioPhos and BioDynoMoB	500-750mℓ IronTrain plus 250-500mℓ BioKelp plus 250-500mℓ BioPhos plus 250mℓ BioDynoMoB	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 tablegrapes and during the lag phase (berry is pea size) for wine grapes.
Sub-Tropical Fruit: Mango, Avocado, Macadamia, Pecan, Bananas, Litchis	Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	
Citrus:			
Grapes: Table grapes Wine grapes	0.25% - 0.5% IronTrain in addition to <i>Plant stress and growth stimulation treatments</i> with BioKelp, BioPhos and BioDynoMoB Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	250-500mℓ IronTrain plus 250-500mℓ BioKelp plus 250-500mℓ BioPhos plus 250mℓ BioDynoMoB Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	
Root Vegetable: Potatoes Sweet Potato	0.5% - 0.75% IronTrain in addition to <i>Plant stress and growth stimulation treatments</i> with BioKelp, BioPhos and BioDynoMoB	500-750mℓ IronTrain plus 250-500mℓ BioKelp plus 250-500mℓ BioPhos 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.	Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	
Grain: Wheat Maize Canola Oats Lucerne Beans Soybean	0.3% IronTrain in addition to BioDynoCMZ and BioDynoMoB Add 100 - 200 mℓ/100ℓ FulMax to improve uptake and efficiency.	300mℓ IronTrain plus 750mℓ BioDynoCMZ 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 at flag leaf stage (if possible).