

# BRANDT™ Manni-Plex™ Mn-Zn



## Foliar Manganese Zinc Solution

PFC 1(C)(II)(b): COMPOUND INORGANIC MICRONUTRIENT FERTILISER

### Declared Content

Manganese (Mn) as nitrate, water soluble. .2.5% w/w

Zinc (Zn) as nitrate, water soluble . . . .3.5% w/w

INGREDIENTS: Zinc Nitrate (CAS 7779-88-6) (CMC1), Manganese Nitrate (CAS 10377-66-9) (CMC1).

### General Information

BRANDT MANNI-PLEX Mn-Zn is a liquid fertilizer based on Manni-Plex Technology, and is designed to prevent and correct manganese and zinc deficiencies which may be present in many different crops. Unlike conventional fertilizers, BRANDT MANNI-PLEX Mn-Zn is formulated with a unique blend of sugar alcohols (polyols) of low molecular weight which react with the manganese and zinc which BRANDT MANNI-PLEX Mn-Zn contains, making it more mobile within the plant, both thru the phloem and xylem, carrying the manganese and zinc directly to the plant's growth forming locations, both reproductive (in particular fruit and inflorescence) and vegetative.

Manganese and zinc interact in a synergistic way: both increase auxin formation, root systems and shoot growth.

Zinc lengthens and enlarges shoots, roots, inflorescences, fruit, rhizomes, tubers, etc., reduces free radicals and improves phosphorous absorption.

Manganese boosts photosynthesis, strengthens plants' immune system and natural defenses against abiotic stress.

*BRANDT MANNI-PLEX Mn-Zn is designed to be applied:*

- In initial vegetative stages to provide a starter and stay green effect to the plant.
- On row crops, in initial vegetative stages and at the beginning of when the edible parts are forming or heading (ears, panicles, pods, siliques, etc.).
- In fruit and horticultural crops at pre-flowering to promote fecundation.
- At fruit set, to improve fruit enlargement and lengthening.
- During any kind of abiotic stress.



Batch Number:  
Manufacture Date:



**Net Contents: 4 liters**

Net Mass: 4.8 kg

Physical State: In Solution

Manufactured and Distributed by:



BRANDT Europe, S.L.  
Ctra. Carmona-Guadajoz Km. 3,1  
41410 Carmona (Seville) Spain  
+34 954 196 230  
www.brandt.co

# BRANDT<sup>™</sup> Manni-Plex<sup>™</sup> Mn-Zn



## Instructions for Use

### Rate Recommendations

#### Via Foliar

At least 2 applications are recommended. Apply in a minimum of 100 liters of spray water per hectare.

Crop	Growth Stage	Rate L/Ha
<i>Row crops:</i> Wheat, barley, corn, soybeans, sunflower, OSR/canola, sugar beet, etc.	•Initial vegetative stages •Beginning of edible parts formation or heading (ears, panicles, pods, siliques, etc.)	2.5-5 L/Ha
<i>Pome and Stone Fruit:</i> Apple, pear, peach, nectarine, plum, apricot, cherry, etc.	•Inflorescence and bud swelling •Fruit set and during fruit enlargement •After climatic stress	2.5-5 L/Ha
<i>Horticultural crops:</i> Tomato, pepper, eggplant, melon, watermelon, zucchini, cucumber leafy vegetables, cabbage, beans, etc.	•Post-transplant & initial vegetative stages •Pre-flowering •Fruit set •Beginning of fruit or edible parts enlargement •After climatic stress	1.5 L/Ha (Post-transplant) Otherwise: 2-4 L/Ha
Potatoes	•Initial vegetative stage, at height of 15 cm •At the beginning of and during tuber growth •After climatic stress	2-4 L/Ha
Tobacco	•Initial stages •During plant development	2-4 L/Ha
Grapes	•Pre-flowering (to increase rachis extension and help prevent millerandage) •Fruit set	2.5-4 L/Ha

### Mixing and Handling Instructions

Fill mix tank with half of required water volume and begin agitation. Add products in this order, mixing thoroughly after each addition: adjuvants, pesticides, then fertilizers. Fill tank with remainder of water and continue agitation until solution is completely mixed.

### Compatibility

This product is compatible with many agrochemicals. Do not mix with mineral oil, polysulfides, 10-34-0, MAP, DAP, nor with phosphates or other products with high pH. Check chemical mixture compatibility using a jar test prior to application with unfamiliar tank mixes.

## Safety and Environmental Information

### DANGER

UFI: 3SN0-D0AX-300X-WAE6

H314: Causes severe skin burns and eye damage.

H412: Harmful to aquatic life with long lasting effects.

P260: Do not breathe dust, fumes, gas, mist or vapours or spray.

P264: Wash thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves, protective clothing, eye protection or face 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.

P310: Immediately call a POISON CENTER and/or doctor.



### Recommended Storage Conditions

Store between 5°C and 35°C. Do not stack more than 4 bottles or stack pallets.

### Additional Information

Shake jug well before using. To be used only where there is a recognised need. Do not exceed the application rate.

### Container Disposal

Triple rinse the empty container and properly dispose of rinse water. Dispose of contents and container in accordance with local and European Union regulations.

**LIMITED WARRANTY:** The Manufacturer warrants that the Product conforms to the chemical description given on this label and is reasonably fit for the purpose stated when used in accordance with label directions under normal conditions of use. The Manufacturer and Seller make no other warranties, express or implied, including warranty of merchantability or fitness for a particular purpose. Buyer and User accept all risks arising from any use of this Product. To the extent allowed by law, the Manufacturer and the Seller shall not be liable to the Buyer or User of this Product for any consequential, special, incidental or indirect damages.

All trademarks referenced herein are owned by or licensed to BRANDT Europe, S.L.