

# FlexForce™ Foliar



ADVANCED ZN-FE-MN NUTRITION



FlexForce™ Foliar is a premium, foliar-applied zinc, iron, and manganese product designed to strengthen vegetative growth and canopy health. This balanced blend of nutrients works together to maximize photosynthetic capacity and carbohydrate production. The advanced formulation includes FBS Transit®, FBSscience's proprietary nutrient use efficiency technology, to ensure rapid uptake and mobility of nutrients within the plant. This convenient blend should be applied anytime during the growing season to fulfill plant demand.

## Benefits of FlexForce Foliar

- Balanced blend of plant-available Zn-Fe-Mn
- Strengthens vegetative growth and canopy health
- Increases canopy function for maximum photosynthetic capacity
- Increases carbohydrate production and movement to growing points

## ADVANCED FOLIAR TECHNOLOGY

### Increased Foliar Penetration

- Low molecular weight organic acids complex the nutrients for rapid absorption through tissue

### Phloem Mobility

- Reduces the binding of nutrients which allows for increased mobility of low phloem-mobile nutrients

### Tank Compatibility

- Reduces antagonism with pesticides, other fertilizers, and hard water in the tank for increased compatibility

### Crop Safety

- Low risk of phytotoxicity



# FlexForce™ Foliar

## TECHNICAL INFORMATION

### Importance of Zinc in Plants

Zinc is an essential constituent of several important enzyme systems and affects many metabolic processes in the plant. Zinc controls the synthesis of the important plant growth regulator indoleacetic acid, which is crucial for active growing tips and leaf enlargement. When zinc is deficient, terminal growth areas are the first areas to be impacted. Zinc is crucial for stress mitigation and a key part of most antioxidant systems in the plant. It combines with copper to create the plant's most effective response to abiotic stresses. Zinc is also critical in bud differentiation, making it important for long-term productivity in vineyard and orchard crops.

### Importance of Iron in Plants

Iron (Fe) is essential in the plant's formation of chlorophyll which gives the plant its healthy green color and is essential for photosynthesis. Iron is the key to electron transfer in both photosynthesis and respiration. Iron is also an important cofactor in other enzyme driven processes like protein synthesis.

### Importance of Manganese in Plants

Manganese is essential to split the water molecule which provides hydrogen for the photosynthetic process. Manganese also activates more enzymes than any other nutrient, including an enzyme that helps mitigate abiotic stresses. It is especially important in the production of proteins that are part of the plant's immune system.

## RECOMMENDATION & COMPATIBILITY

Orchards & Vineyards: Apply 2-4 quarts/acre during the stages of canopy building, fruit/nut fill, and bud development.

Berry Crops: Apply 2-4 quarts/acre during early leaf growth and immediately following each harvest.

Row Crops: Apply 1-2 quarts/acre any time after 4th leaf.

For All Other Crops: Apply 1-4 quarts/acre anytime during the growing season; Repeated applications may be beneficial.

DO NOT spray in the heat of the day or when the plant is under moisture stress. DO NOT spray to the point of runoff. Use as fine of a spray mist as possible. Allow 3-4 hours after application before sprinkler irrigating to avoid washing the product off.

Recommended mixing sequence: water, adjuvants, pesticides, FBSciences nutrient products, other fertilizers, balance of water while agitating. When mixing with high phosphate fertilizers, add a citric acid buffer until the pH is 4.5 to 5.0 to improve compatibility and uptake. Ensure agitation is available when mixing with calcium fertilizers.

See product label for complete Directions For Use.

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## GUARANTEED ANALYSIS

<b>Total Nitrogen (N)</b> .....	<b>1.0%</b>
<b>1.0% Urea Nitrogen</b>	
<b>Water Soluble Iron (Fe)</b> .....	<b>2.0%</b>
<b>Water Soluble Manganese (Mn)</b> .....	<b>1.0%</b>
<b>Water Soluble Zinc (Zn)</b> .....	<b>3.0%</b>

Derived from: low biuret urea, iron sulfate, manganese sulfate and zinc sulfate.

### Net Weight

10.6 lbs per Gallon @ 68° F

1.3 kgs per Liter @ 20° C

## ESSENTIAL ON A WIDE VARIETY OF CROPS

