



Z-PHOS®

Macronutrient

Guaranteed Analysis 0-12-0

Available Phosphate (P ₂ O ₅).....	12.00%
Sulfur (S).....	3.00%
Copper (Cu).....	0.35%
Manganese (Mn).....	1.00%
Zinc (Zn).....	5.00%

Derived From:

Phosphoric Acid, Copper Sulfate, Manganese Sulfate, and Zinc Sulfate.

Also Contains Non-Plant Food Ingredient:

0.2% Organic Matter (derived from leonardite)

Physical Properties:

Form: Liquid

Appearance: Clear to slightly hazy blue, having a slight characteristic odor.

Weight: 11.60 lb/gal, 1.39 kg/L

pH: 0.8–1.8

Caution:

Keep out of reach of children.

Harmful if swallowed.

The vapors, mists, and liquid may cause severe irritation or burns to all tissues contacted.

Phosphoric acid may generate flammable hydrogen gas on contact with many metals.

Storage and Disposal:

Keep product in original container. Do not transfer into food or drink containers. Triple rinse when empty for recycling. Always dispose of container in accordance with local, state, and/or federal regulations. Do not store this product below 50°F (10°C) or above 90°F (30°C).

Conditions of Sale:

The information contained in this bulletin is believed to be accurate and reliable. Buyer and user acknowledge and assume all liability resulting from the use of this material. Follow directions carefully. Timing, method of application, weather, crop conditions, and other factors are beyond the control of the seller.

The Solution for Improving Zinc and Phosphate Availability in Soils

Huma Gro® Z-PHOS™ carbon-complexed with Micro Carbon Technology® enables each nutritional element to be stable and retain effectiveness and efficiency while readily mixing with other fertilizers. Save time and money by using this pre-blended formulation.

Benefits of Use:

- Resists “tie-up” with calcium or aluminum to remain water soluble and available to plant roots
- Moves with irrigation water to aid in proper placement
- Can be tank-mixed to improve availability of other phosphorous solutions
- Is non-salt-forming
- Aids in phosphorus uptake in cold or waterlogged soils
- Improved plant vigor and tolerance of environmental stresses
- Aids phosphorus uptake in high pH or calcareous soils

Deficiency Symptoms—When to Apply:

- Poor soil phosphate availability
- Stunted growth due to phosphate deficiency
- Stress from disease pressure

Application Instructions:

Contents are highly concentrated and must be diluted with water in a ratio of at least 20 parts water to 1 part product prior to foliar application. Applications can be made as often as every 7 to 10 days, as needed. See table below for specific rate instructions. Consult your local Huma Gro® representative or other agricultural specialist for crop-specific recommendations. SHAKE WELL BEFORE USING.

METHOD OF APPLICATION	SUGGESTED RATE	
	Field Crops / Tree or Vine Crops	
Foliar band application at 50% coverage	Up to 2 quarts/acre, 5 liters/hectare	—
Foliar broadcast or sprinklers: solid, set, pivot, linear (100% speed)	Up to 1 gallon/acre, 10 liters/hectare	Up to 2 gallons/acre, 20 liters/hectare
Soil banded or injected, through drip tape or micro sprinklers	Up to 1 gallon/acre, 10 liters/hectare	Up to 2 gallons/acre, 20 liters/hectare
Soil broadcast spray incorporated, flood or furrow irrigated	Up to 2 gallons/acre, 20 liters/hectare	Up to 4 gallons/acre, 40 liters/hectare



Powered by
**MICRO CARBON
TECHNOLOGY**

**This Product Contains Micro Carbon Technology®, a proprietary blend of very small organic molecules that allows for more effective absorption of nutrients by plants.*