



*Caring and Sharing*

**KRYSTAPHYTE™**



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# KRYSTAPHYTE™

## GENERAL INFORMATION

KRYSTAPHYTE™ is manufactured and designed:

1. Phosphites are highly systemic nutrients with fungicidal activity against Phytophthora, Pythium, Mildews, Brown Rot
2. Enhancement of the plant's natural defense mechanism
3. Improved plant nutrient health
4. Higher solids content
5. Increased yield
6. Post harvest quality enhancements
7. Improved foliar uptake of cations (i.e. K, Ca, Mg, Mn)

## ADVANTAGES OF PHOSPHITES OVER PHOSPHATES

1. Readily taken up through foliage of many species including citrus and avocado
2. Potassium phosphite oxidizes to phosphate in air making it an excellent compound for continuous supply of phosphate to the plant
3. Phosphite fertilizers in the soil provide a steady supply of available phosphorous to the plant roots as compared to phosphate and superphosphate fertilizers where, as a result of phosphate fixation in the soil, only a fraction of the phosphate is actually available to the plant
4. Effectively controls specific species of Oomycetes and some species of Phytophthora, therefore combining nutrition value and fungicidal / fungi static properties (KrystaPhyte is not registered as a fungicide)
5. Stimulates the plant's metabolism to synthesize allelopathic chemicals (phytoalexins) which aids in the fight against invading pathogens



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## SPECIFICATION

Common name:	Mono Potassium Phosphite
Synonyms:	Potassium Dihydrogen Phosphite
Chemical name:	Mono Potassium Phosphite
Molecular Formula:	$\text{KH}_2\text{PO}_3$
Molecular Weight:	120.096
CAS No.:	13977-65-6

### Physical-chemical properties:

Appearance:	White crystal
Odor:	Odorless
pH value:	pH 4.0 – 5.0 for a 5% solution
Solubility in water:	Soluble

## DIRECTION FOR USE – GENERAL

1. KRYSTAPHYTE™ works best when crops are not under stress
2. KRYSTAPHYTE™ is most effective when applied at crop stages
3. If this product is to be applied as a liquid either on the soil or on the foliage, it is NOT necessary to pre-mix with a small amount of water. Instead, add this product directly into the solution tank slowly and maintain good agitation. Agitation and stirring should continue until the product is fully dissolved
4. As a matter of precaution, for tank-mix applications with other agricultural inputs such as fertilizers and pesticides, it is advisable to prepare a sample mixture of these products to ensure good compatibility before application



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## DIRECTION FOR USE

KRYSTAPHYTE™ can be applied as a powder, liquid spray, liquid injection or through drip irrigation systems.

1. When applied as a powder, it should be washed in or irrigated with water within 4 hours of application
2. When applied as a spray onto the soil an adequate volume of water should be used to wet the soil thoroughly
3. When applied as a soil injection, it should be done at less than 1 meter apart
4. Ensure complete coverage as a foliar spray

### General Rates of Application

The rates recommended below represent the upper and lower limits of the range. Actual rate to be applied depends on size of the plant and the level of need.

Type of crop	Application Rate and Frequency	Application Timing
Wheat, Rice, Corn, Peanut, Cotton	<b>2 – 3kg / ha per foliar application. Frequency: 2 – 3 applications per season or as determined by soil or tissue tests.</b>	Vegetative development, Flowering, Grain fill
Beanstalk, Eggplant, Pepper, Tomato, Potato, Onion, Muskmelon, Watermelon, Cucumber, Grape, Strawberry, Peach, Apple, Lychee		Flowering and Fruit development
Smooth Mushroom, Fragrant Mushroom, Lily Mushroom, Tea, Chinese Herbs, Flowers		As required
Green grocery, Leek, Cabbage, Celery		As required

Remarks: Complete coverage of foliage is recommended, re-apply if a wash off event occurs within four hours of application





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## CONDITIONS OF SALE

1. Seller warrants that this product consists of the ingredients specified and is suitable for the purpose stated in this brochure when used in accordance with the directions under normal conditions of use.
2. The information contained in this brochure is believed to be accurate and is intended solely for general guidance in the use of this product; it should not be construed as a guarantee of suitability for a particular application.

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