SKYLITE AGROCHEM

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INFORMATION SHEET

Potassium Phosphite

Other Name- Potassium salt of phosphorous acid , Potassium salt of phosphonic acid

Molecular Formula-KH_2PO_3

Appearance-White crystalline Powder, Hygroscopic

Solubility- Soluble in water as well as in Ethanol

pH - 5.29

Hazardous-No

Basic Application-Used as systemic fungicide for crops

How to Use-

- 2 -2.5 gm/Lit of water for small infant plants for spraying
- 2.5 – 3 gm/Lit of water for adult plants for spraying
- 5 gm/Lit of water for drenching
- Can be used along with contact fungicides

- Avoid contact with skin and eyes. Wear protective gloves/protective clothing/eye protection
- Keep container tightly closed.
- Keep away from food, drink and animal feeding stuffs
- Keep preferably in the original container. Keep away from iron, metal, lead.
- Storage temperature: 10 to 30 °C
- Keep substance away from heat sources

- Important Instruction –Do not mix with Sulfur, Copper oxychloride, Copper Sulphate and Sulfate form products

Advantages of Potassium Phosphite Use-

- Highly effective on fungal infections like Downy mildew (*Plasmopara viticola*) ,Powdery mildew (*Podosphaera xanthii*)
- Significant result on Phytopthara, Root rot diseases and Late Blight diseases
- Potent activity can be seen on Bacterial infections like Bacterial Blight (*Xanthomonas axonopodis)*
- Easily absorbed by the plant both through the roots and the leaves
- Applicable for all types of crops, plants
- Activates defense mechanism of plant
- Absorbed and taken up across the membranes of plant foliage, roots in both their nutritive and plant protective role
- Shows immediate activity
- Disrupts the phosphorus metabolism in the pathogen, inhibiting its growth and causing it to release stress molecules

- Photoalexin is produced which attacks the disease directly, phosphite also helps maximize this by providing ideal nutrition.
- Relieves 'hidden phosphorus hunger' during fast growth stages.
- Stimulates healthy growth during conditions which may be favorable to the development of some root rots and leaf mildew.
- Complements the action and mobility of other nutrients such as manganese and iron.
- Non persistent in the environment, as readily oxidized to phosphate by soil microbes, and also has very low mammalian toxicity.
- Potassium phosphite is non phytotoxic and having very minimal pathogen resistance
- Compatible with almost all pesticides and fungicides
- Can be used for both protective as well as curative treatment.
- Do not remain as harmful residue in plant systemically and locally.
- Encourages the production of polysaccharides which strengthen the cell walls, giving additional protection.
- It is more environmentally safer and more target friendly than applying as a foliar spray
- Increases crop yield remarkably
- Effective on all crops, fruits and Vegetables (Grapes, wheat, Coffee, Black Pepper, Cotton, Banana, Oranges, Jute, Sugarcane, Tea, Pineaaple, Arecanut, Strawberry, Coconut, Coffee, Oil seed, Beans, Ginger, onions, Papaya, Tomatoes ,Potatoes and turf grasses.)

(Important Note-Expected result may be fluctuate due to Environmental conditions, use of agricultural utensils, compatibility of other chemicals, Time of -spraying etc.)