

## Plant defense inductor



COMPOSITION	%w/w
Potassium Phosphonate	95,0
Phosphorus ( $P_2O_5$ )	57,0
Potassium (K <sub>2</sub> O)	38,0



## Characteristics

SONAR PHOS PK is a greater activator of the natural defense of the plant against certain pathogenic fungi and bacteria.

It stimulates the production of Phytoalexins, which enhance the host's natural defences against Oomyces fungi: Phytohtora spp., Plasmopara viticola, Bremia, Pseudoperonospora, Peronospora, Pythyum and also bacteriae: Pseudomonasand Erwinia.

It is specially recommended to prevent diseases caused by these pathogens, such as:

- Water spot and brown rot in citrus fruits.
  Foot rot and trunk-branch canker (Gummosis) in avocados, citrus, top fruits and ornamental trees.
- Fire blight in top fruits.
- Downy mildew in table and vine grapes, lettuces and onions.
- Blight of pepper.
- Root rot and downy mildew in: Strawberries, tomatoes, cucurbits, vegetables and ornamentals.
- Brown blight of conifer fences.
- Damping-off in turf and lawns.

Crop	Application	Doses/ treatment	Spray volume	Remarks	
CITRUS AVOCADO TOP FRUITS 5oil	Foliar spray (H.V.)	250 g/hl	1.000 - 3.000 l/ha	Three (3) preventive treatments per season are recommended: in the beginning of Spring, Summer and beginning of Autumn. In top fruits, treat once or twice in pre-blossom or/and petal fall, to prevent Fire blight.	
	Foliar spray (mistblower)	600 g/hl	300 - 1.200 l/ha		
	Trunk painting	300 g/l	-	Scratch the infected part of the stem and paint the affected area. In case of high pressure of the disease, make three (3) treatments per season.	
	Soil (through drip irrigation)	5 - 7 kg/ha	-	Make 2 preventive treatments: 1st in spring: 2nd in autumn.	
STRAWBERRIES	Soil (through drip irrigation)	2,5 - 5 kg/ha	-	Make 2 - 3 treatments from rooting to flowering to prevent attacks of Phytophthora cactorum.        From the start of flowering to end of harvesting, make 3 - 4 treatments.	
	Foliar spray	250 g/hl	800 - 1.000 l/ha		
VINEYARD	Foliar spray (mistblower)	500 g/hl	300 - 500 l/ha	Treat every 15 days from flowering to ripening. A tank mix with preventive fungicides as	
TABLE GRAPES	Foliar spray	250 g/hl	600 - 1.000 l/ha	Folpet or Mancozed are recommended.	
LETTUCE and leaf crops	Foliar spray	2,5 Kg/ha	600 - 1.000 l/ha	Two (2) treatments are recommended: 1st: 7-10 days after transplanting. 2nd: 15 days later.	
ONIONS	Foliar spray	1,5 - 2,5 Kg/ha	300 - 500 l/ha	Three (3): preventive treatments per season are recommended: 2nd: 15 days later. 3rd: 15-21 days later.	
CONIFERS Soil (drig	Foliar spray	250 g/hl	600 / 1.000 l/ha	Make 4 treatments every month from Spring to mid Summer.	
	Soil (drip irrigation or drenching)	10 g/m of fence	-	•Use up to 20-30 g in case of isolated big trees (soil drenching).	
TOMATOES/ CUCURBITS	Foliar spray	150 - 250 g/hl	800 - 1.000 l/ha	To prevent attacks of Phytophthora infestans/ Pseudoperonospora cubensis fortnightly (15 days) from flowering until mid-end harvesting. A tank mix with Aliado is recommended to also control Alternaria.	
PEPPERS	Soil (through drip irrigation or drenching)	2.5 Kg/ha	-	To prevent Phytophthora capsiciattacks, treat every 15-21 days from one week after transplanting to harvesting. A tank mix with Hymexazol is recommended to also control Pythium.	
TURF & GOLF COURSES	Foliar or sprinkler irrigation	0,75 -1 Kg/1000m²	-	Monthly treatments from beginning of Spring to mid Autumn are recommended. To control also Helminthosporium sp.and Rhizoctonia, treat (in tank mix) with Chlorothalonil and	

## **Doses and Application**





