

Sol-Actif®

ORGANIC AMENDMENT.

Material : Chitin/ Family : saccharides/ Formulation : Powder/ Class : No class

Autorisation number: 1080010 dated february 18th 2009.

Description

Stimulation of chitinolytic microflora.

Propriétés

- **Sol-Actif** restores chitinolytic organisms that attack, repel or otherwise antagonize disease-causing pathogens. Those micro-organisms in great number will maintain phytopatogens at a level well below the one it could have reached without it. This reduction of pathogen capacity to colonise roots has been observed against pathogen such as rhizoctonia, phytophthora, fusarium, sclerotinium.. This reduction has been observed on germinating seeds, plantlets but as well on adult plant after transplantation..
- **Sol-Actif** is an organic fertiliser, it contains about 7% of organic nitrogen.
- **Sol-Actif** favor development of micro-organisms involved in fighting nematods and reduces damages caused by Meloidogine sp.

Applications et Dosages

See bed or potting compost. Apply by mixing to the soil at time of seedling (see note below) water using classic watering system or drip-drip system.

Revegetalisation. When restoring lands after construction work, such as motorways side, roads constructions, golf course , ski runs, soils are generally poor in organic matter and life. Sol-Actif brought together with an organic amendment such as peat, guano or bat guano reestablish soil life by multiplication of bacterial population, increase of root development and lawn densification.

Cultures

1. Trees and ornamental shrub.
2. Tropical species.
3. Houseplant.
4. All floral species.
5. All fruit species.
6. All vegetable species.

Matières fertilisantes

Matières organiques	92 %
N organique	7,4 %
N soluble	0,1 %
C/N ratio	6,5
Humidité	inf à 7 %
Cendres	inf à 3 %

Sol-actif was evaluated during two years in comparison with a chemical biocide and a non treated plot on tomatoes under greenhouse condition.

Seed bed compost amended at 6 g/kg rate..

Then plantlets were transplanted in a soil infested by Rhizoctonia, solani , Fusarium solani, Sclerotium rolfsii 30 days after seedling.

Root rot incidence in response to different concentrations of Sol-Actif used as seed bed conditioner during two seasons of production in comparison with a chemical biocide as reference.

Treatment g/kg	First Season		Second Season		Production yield increase in comparison with not treated control
	Infestation	Réduction	Infestation	Réduction	
Sol-Actif 6g/kg	9,0 %	85,4 %	14 %	80,7 %	+ 40 %
Chemical Biocide	11,2 %	81,8 %	14,0 %	80,7 %	+ 32 %
Control not treated	61,5 %		72,5 %		

Observations have been performed over a three months period.

Note : Indications of use as described on this notice have been established based on results of scientific studies following private and official tests that have been the more constant in practice. They are not absolute rules, but general recommendation for use Sol-Actif is rich in organic matter on top it favors organic mineralisation already present, an overdose can be toxic for some germinating seeds sensitive to nitrogen. Addition of mineral nitrogen can have an inhibiting effect.