



**PRODUCT INFO  
& DATASHEET**

## **SICOPHYTE-50L**

*Potassium Phosphite 50% Liquid (27.8% K<sub>2</sub>O + 41.7% P<sub>2</sub>O<sub>5</sub> + 45.7% PO<sub>3</sub>)  
(w/v)*

### **1. INTRODUCTION**

SICO Phosphite products increase the plant's vitality and resistance. Root growth is increased due to the special phosphorus composition. You can also expect a positive effect on shelf life and fruit colour. In general the plant's immune system will improve.

We offer liquid Potassium Phosphite 50% as well as NPK formulas within our SICO Phosphite range. (eg. liquid NPK 3-17-18 + CTE)  
Tailor-made liquid NPK's adapted for your local requirements can be discussed.

### **2. PRODUCT SPECIFICATIONS**

#### **a) Description**

Brand name : SICOPHYTE-50L  
Chemical name : Potassium Phosphite 50%  
Appearance : colorless liquid

#### **b) Chemical composition**

	<u>w/w</u>	<u>w/v</u>
Potassium Oxide (K <sub>2</sub> O)	: 20.0% w/w +/- 1%	27.8% w/v +/- 1%
Phosphorous Pentoxide (P <sub>2</sub> O <sub>5</sub> )	: 30.0% w/w +/- 1%	41.7% w/v +/- 1%
Phosphite (PO <sub>3</sub> )	: 32.9% w/w +/- 0.5%	45.7% w/v +/- 0.5%

#### **c) Physical properties**

Density : 1.39 g/cm<sup>3</sup>  
pH : 4 +/- 0.5 (in 1.0% water solution)  
Crystallization Temp : < -10°C

### **3. PRODUCT CHARACTERISTICS**

- 1/ For foliar feeding and for fertigation in open fields as well as in high-tech hydroponics systems
- 2/ Transparent liquid product of high purity
- 3/ To improve the plant's general immune system and root growth
- 4/ Results in increased shelf life and colour of fruity crops
- 5/ Compatible with most water-soluble fertilisers

### **4. PACKINGS**

Available in packings of 1.000 l, 220 l, 20 l, 10 l and 1 l.

### **5. RECOMMENDED APPLICATIONS & DOSING INSTRUCTIONS**

#### **a) Dipping of plantroots**

The naked roots of young plants like strawberry can be dipped in Potassium Phosphite just before planting. This will result in increased initial growth just after planting, the most critical period of the entire crop. The plants should be dipped 15-20 minutes, until the heat of the leaves. A concentration of 0.5% is advised.

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy itself of the suitability for its own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.

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## b) Foliar

Crop	Application date	Dosage per treatment	Remarks
Citric trees	3 applications: - spring - beginning of summer - autumn	1.5 – 2.0 l/ha	
Fruit trees	2-3 applications: -from flowering until start of fruit setting - weekly to 10 days interval	2 – 2.5 l/ha	Specially advised when the bud of the flower is weak eg. due to stress. Advice is on top of normal fertilisers used.
Potatoes	3-4 applications: - as of tuber setting - 10 days interval	3 – 4 l/ha	Depending on potato variety
Strawberry	3-4 applications: - as of early flowering until first fruitsetting - autumn application with minimum of 1.000 l of water	3 l/ha 12 – 15 l/ha	
Vines	3-4 applications: - as of first flowering until closure of bunch - weekly interval	3 l/ha	
Cucumber	4-5 applications: - after planting - two weeks interval	5 l/ha 3 l/ha	
Tomato	Several applications until first fruit setting	3 l/ha	

## c) Fertigation

Crop	Application date	Dosage per treatment	Remarks
General	Throughout growing season, specifically in periods of stress - weekly treatment	6 – 10 l per treatment	
Flowers grown on soil (eg. chrysanthemum)	2-3 applications: - weekly, starting just after planting	10 l per treatment	Subject to a.o. soil and climatic condition
Vegetable crops grown on rock wool	2 applications: - just after planting - at start of fruit setting	3 – 5 l per treatment	Dissolve in B-tank 3- 5 l per 1.000 l tank (100 times concentrated)
Strawberry	4 applications: - as of planting until colouring of first fruits	8 – 10 l per treatment	Subject to a.o. soil and climatic condition
Crops grown on organic substrates (roses, potting plants)	Throughout growing season specifically in periods of stress - weekly treatment	10 l per treatment	Subject to a.o. soil and climatic condition

In case of foliar feeding as part of a spray-mix, testing the intended spray-mix on a small area is recommended prior to commercial treatment. In general Potassium Phosphite products should not be mixed with caustic products or sulphate products, like most of the herbicides and wetting agents.

The mentioned indicated dosages and application stages are subject to soil and climatic conditions, influence of previous crops and other specific conditions. Exact dosages and application stages can only be given after an objective diagnostic procedure by e.g. soil and plant analyses by your local agronomist.