



SiTKO 0-7-17

A COMBINATION OF SILICATE, PHOSPHITE

- Improves Resistance to Drought
- Easily translocates to cell
- Important for Plant Growth & Quality

GUARANTEED ANALYSIS:

Available Phosphate (P₂O₅)..... 7%
 Soluble Potash (K₂O) 17%
Derived From: Potassium phosphite, Potassium silicate, Potassium hydroxide.

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

5% Silica (SiO₂)
 Weight per gallon 12 lbs.
 Weight per liter 1.43 kg
 pH 12

PRODUCT DESCRIPTION:

SiTKO is a unique formulation containing three important nutrients that are essential to enabling the plant to develop and maintain a strong immune system. By doing so, the plant is able to overcome environmental stress such as physical damage, heat and drought and better resilience to pests and diseases. SiTKO contains potassium silicate, a beneficial substance that has been found to alleviate many abiotic and biotic stresses. Not all silicon in soil is soluble and available to crops. The American Plant Food Control Officials designated silicon as a "plant beneficial substance." Si plays an important role in plant health. Si reinforces cell walls by deposition of solid silica. It is translocated from the roots as silicic acid [Si(OH)₄] through the xylem until it deposits under the cuticle and in intercellular spaces. Many crops respond positively to additions of supplemental Si. Grasses can take up large amounts of Si where it contributes to their mechanical strength. Si helps to protect plants from environmental stress. For some crops, Si fertilization of soils increases crop yield. A second mechanism for the beneficial effects of Si is its role in triggering a range of natural defenses.

CROP TREATMENT RECOMMENDATIONS:

SiTKO can be used as a foliar application or through drip and broadcast systems. Recommendations are based on broadcast spray application. When band or directed sprays are used, calculate the rate for the "sprayed acre" only. For most field and horticultural crops the early season applications are directed sprays. For treatment of individual trees and vines, divide rate per acre by number of trees or vines per acre.

GREENHOUSE RECOMMENDATIONS:

SiTKO contains important Si for greenhouse crops grown in soil-less substrates such as peat moss or pine bark.

EQUIPMENT & TANK CLEANING:

- Builds Stronger Cell Walls and Stems
- Slows Down Water Transpiration Rate
- Boosts Chlorophyll Under Low Light

Mixing: It must first be diluted with water prior to mixing with other nutrients or technical materials. Do not add concentrate together. Do not add to highly acid materials. Flush tanks and lines with a solution of 1 gallon citric acid to 100 gallons of water. Follow by flushing with water to rinse out lines to clean out drip irrigation systems.

Application Rates		
Application	Rate	Frequency / Notes
Vegetable crops such as Cole, Cucurbit, Fruiting or leafy vegetables	1 - 2 quarts per acre (2 1/3 - 5 Liters per Ha)	Multiple application for best results. Apply every 14 - 21 days. Apply 4 - 8 applications / year
Vines	1 - 2 quarts per acre (2 1/3 - 5 Liters per Ha)	Multiple application for best results. Apply every 14 - 21 days. Apply 4 - 8 applications / year
Citrus, Berries, Pome Fruit, Stone Fruit	1 - 2 quarts per acre (2 1/3 - 5 Liters per Ha)	Apply in spring when root growth has begun. Apply 4 - 8 applications / year
Rice, Barley, Alfalfa, Oats and other field crops	1 - 2 quarts per acre (2 1/3 - 5 Liters per Ha)	Multiple application for best results. Apply every 14 - 21 days. Apply 4 - 8 applications / year

Greenhouse & Nursery Injection At 1:100 Ratio	
100 PPM Si	2 oz. per gallon water (11 ml per Liter water)

The following precautionary statements and pictograms are based on The Globally harmonized System of Classifications and Labeling of Chemicals (GHS) and are mandated by the Occupational Safety and Health Administration (OSHA)



WARNING

H302 Harmful if Swallowed
 H319 Causes Serious Eye Irritation
 H315 Causes Skin Irritation

Condition of Sale and Warranty: Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.