

The Little  
Nutrient  
That's  
Making a

**BIG**  
Difference



**CropSIL<sup>®</sup>**

Patented formulation of bio-available  
mono-silicic acid  $\text{Si(OH)}_4$

- **Increases bio-mass** of plant's leaves, branches, stems and roots
- **Enhances plant cell structure**, epidermal and epidermis barriers
- **Increases resistance** to pest, fungal and bacterial diseases
- **Improves transpiration** and nutrient uptake
- **Improves ripening**, higher brix and nutritional value with a longer shelf-life
- **Optimizes input performance** such as fertilizers, crop protection products (CPP) and biostimulants



NUVIA  
Technologies Inc.

**FiBL**

## A plant process regulator and nutrient enhancer 3% Plant Derived Silicon

### PURPOSE

Silicon is a recognized beneficial substance\* that can strengthen the cell walls: improve a plant's heat, drought, salinity stress tolerance: and extend post-harvest shelf life of agricultural produce.

\* Association of American Plant Food Controls Officials (AAPFCO) definition BSC-4 Available Silicon (Si).

### GENERAL METHOD OF USE:

1. Dilute 0.25oz - 0.3oz /gal of water ( 2-2.5 ml /1-liter of water )
2. Apply with foliar spray in 4 cycles per crop per season

### GENERAL TIMING:

- a) Sow seed, spray with solution, and cover with soil
- b) First spray- before flowering
- c) Second spray - post bloom, before fruiting
- d) Third spray - at early fruit
- e) Fourth spray - 4 - 5 days before harvest

### GENERAL APPLICATION RATES FOR MOST CROPS:

**2 - 5 oz. per /Acre/App 3 - 4 times per season**

- Most Crops: **2 - 5 oz.** per/acre/application
- Cane Fruit: **5 - 10oz.** per/acre/application
- Orchards: **10 - 12oz.** per/acre/application

(applications can also be spread over the entire growing season, maintaining recommended rate per acre/ season)

**GREENHOUSE RATE:** 12oz. to 24oz. per 100 gallons of water

**General Rule for mixing:** 0.20% v/v of CropSIL solution.  
This is comparable to 10.fl oz / 50 gallons of water.

### ORCHARDS: 5 Applications

APPLY	STAGE OF PLANT DEVELOPMENT	APPLICATION RATE
1	Appearance of leaves.	Apply a 0.1% v/v CropSIL solution
2	Fruit development and uptake of essential micro elements.	Apply a 0.3% v/v CropSIL solution
3	Fruit development and uptake of essential micro elements.	Apply a 0.3% v/v CropSIL solution
4	Fruit development and uptake of essential micro elements.	Apply a 0.3% v/v CropSIL solution
5	Last stage of fruit development thru maturity	Apply a 0.4% v/v CropSIL solution

### Root Feeding in Nurseries and Greenhouses

(Soak seed and roots, and apply foliar and root feed as prescribed during season)

- Fertilize roots in solution of 1 oz. per 5 gal water.
- Foliar over plants with 33oz. in 132 gal water, 2 - 3 times during season.

MANUFACTURED FOR AND GUARANTEED BY:

**NUVIA**  
Technologies Inc.

Expertise in Agricultural Biochemistry,  
Microbiology, Bioprocess Engineering  
and Environmental Applications

Unit 5, 85 Chambers Dr - Ajax, ON - L1Z1E2 - Canada - [www.nuviatec.com](http://www.nuviatec.com)  
Phone: +1 (416)-900-3768 - Email: [info@nuviatec.com](mailto:info@nuviatec.com)



Hydroponics  
Ready



Open Field  
Ready



Green House  
Ready



Food  
Crops



Orchards &  
Vineyards



Hydroponics &  
Greenhouses



Seed, Seedling  
Planting Beds



Turfs &  
Ornamentals



Hemp &  
Marijuana



Non Food Plants,  
Gardens & Potted Plants

### Mode of Action:

Silicon influences water relations in drought-treated plants, it induces the formation of a silica cuticle double layer under the leaf epidermis which reduces water losses through transpiration. Silicon in the plant contributes to plant mechanical strength, a structural role, that may protect plants from insect attack, disease, and environmental stress by improving the plant's defense response. Si can increase the antioxidant activities of plants, thereby improving a plants stress tolerance.

### GUARANTEED ANALYSIS

Soluble silicon (Si).....1.14%

Inert ingredients:.....98.86%

### CONTAINS NON PLANT FOOD INGREDIENTS

1.14%% soluble silicon (SiO<sub>4</sub>) derived from Monosilicic Acid

Information regarding the contents and levels of metals in this product is available on the internet @ <http://www.aapffco.org/metals.htm>

### CAUTION

Wear Protective Clothing, Gloves made from PVC, Neoprene, or Rubber.  
Wear Eye Protection: Safety goggles  
Wear Body Protection: Change clothes immediately if product is spilled on clothing.

### FIRST AID

SKIN CONTACT: Rinse thoroughly with water.  
If irritation persist seek medical attention.  
EYE CONTACT: Rinse thoroughly with water.  
If irritation persist seek medical attention.  
SWALLOWING: Rinse mouth thoroughly with water, salt water if possible. Induce vomiting and seek medical attention.

### STORAGE

Keep from freezing, store in cool dry place.  
CropSIL® can be kept for upto 5 years in original unopened package at a temperature between 15°C and 25°C.

**Disclaimer:** Since the use of this product is beyond NuVia's control we will not accept any liability for the misuse or claims otherwise except for quality of the product.

**FiBL**



### Packaging sizes

1 L (33.8 oz) - 5 L (1.32 gal) - 10 L (2.64 gal)  
1000 L IBC Tote (265 gal)



6 27843 77507 2