



## Silicic Acid Agro Technology

### Description

CropSIL® is not a fertilizer or pesticide. CropSIL® will strengthen the plant's cell walls producing a stronger healthier plant and increase the plants resistance to stress, with better rooting and photosynthesis. CropSIL® is a patent pending stabilized formulation of Ortho-Silicic Acid [Si(OH)<sub>4</sub>], and can be used effectively in mixes with other inputs.

### Guaranteed Minimum Analysis

Available Silicon [Si(OH)<sub>4</sub>].....**3%**  
 Other Ingredients.....**97%**

### Direction of use

#### CropSIL® can be applied with sprayers or through irrigation systems

**Dilution:** CropSIL® must be diluted in water. (1) Quality of water may depend on the type of equipment used, on temperature at the time of application, on the stage of the plants development etc. (2) The dilution range of CropSIL® is 1 liter of CropSIL® dissolved in 200 to 2,000L (litre) of water to treat 1 hectare (Ha). (3) Fill tank 75% with clean water and then add CropSIL®, fill the tank and mix thoroughly. **DO NOT** add CropSIL® first. (4) CropSIL® is compatible with other inputs, however, we do recommend a compatibility test before mixing. Create CropSIL® working solution before adding other inputs. (5) Make sure that all equipment (sprayers, irrigation) is clean and dry before use. (6) CropSIL® pH does not need to be adjusted before spraying. (7) A tank mix with other input may require pH adjustment.

#### CropSIL® Dilution Rates

CropSIL® milliliter or ml	200 ml	400 ml	600 ml	800 ml	1,000 ml	Domestic Uses: 5 ml (1teaspoon)
Minimum quantity water	40L	80L	150L	300L	500L	3.7854 litre (1 gallon)
Maximum quantity water	160L	320L	600L	1200L	2,000L	15.1416 litre (4 gallon)

**Volumes and frequencies:** A total average of 2,500 ml (2.5 Liters), of CropSIL® per hectare (Ha) per season. **DO NOT EXCEED** 6,000 ml (6 Liters) of CropSIL® per (Ha) per season. The average dose of CropSIL® per application should be between 200 to 500 ml per hectare (excluding tree fruit and orchards). Treatments should be spread across the growing season ranging from 3 to 9 spray applications per growing cycle.

#### Some (General) suggested application volumes and frequencies:

**Commercial growers please contact your dealer or ag rep for specific crop protocol**

Crop species	Suggested number of spray applications in a treatment	Suggested frequency: 10, 14 or 21 days	Suggested applications and volumes		Total volume of CropSIL® per season	
			Per Hectare (ml)	Per metre <sup>2</sup> (ml)	Per hectare (L)	Per metre <sup>2</sup> (ml)
Pepper, Tomato, Eggplant	6 to 8	21	350	0.035	2,800 ml	0.280 ml
Onions, bulbs	7 to 9	21	300	0.030	2,700 ml	0.270 ml
Potato,	4 to 6	14	450	0.045	2,700 ml	0.300 ml
Cucumber, zucchini	5 to 7	21	400	0.045	2,800 ml	0.280 ml
lettuce	3 to 5	10	250	0.025	1,250 ml	0.125 ml
Melon	4 to 6	14	450	0.045	2,700 ml	0.270 ml
Berries	6 to 8	10	350	0.035	2,800 ml	0.280 ml
Cannabis/Hemp	4 to 6	14	500	0.050	3,000 ml	0.300 ml
Carrots, Grapes	3 to 5	21	500	0.050	2,500 ml	0.300 ml
French beans	4 to 6	21	350	0.035	2,100 ml	0.210 ml
Broccoli, Cauliflower	3 to 5	21	400	0.040	2,400 ml	0.240 ml
Flowers	4 to 6	10	250	0.025	1,500 ml	0.150 ml
<b>1 Hectare (Ha) = 2.47 Acres (Ac)</b>	<b>1 Quart = 0.946 ml</b>	<b>1Litre = 1,000 ml</b>	<b>1 fl. oz. = 29.57 ml</b>			

**Disclaimer:** CropSIL® is a plant stress mitigator and does not replace current protocols and practices. This document is intended for educational purposes only and does not replace independent professional guidance and recommendations.

**Other directions:** (1) Treatment should **start at first transplant** or **first (true) leaves** stage and should terminate around 2 weeks before harvest. (2) The mixed working solution should be used within 4 hours after dilution. (3) Spray applications should be early or late in the day between a temperature of 9°C to 27°C. in good drying conditions and allowed to dry before night fall.

### Safety Precaution

(1) Wash thoroughly after handling. (2) Wash hands before eating. (3) Remove contaminated clothing and wash before reuse. (4) Wear appropriate protective eyeglasses or chemical safety goggles. (5) Wear appropriate protective clothing and gloves to prevent skin exposure. (6) Always use a NIOSH approved respirator when necessary. (7) **Keep away from children.** (8) **Dispose in accordance with federal, provincial and local regulations.**

### Storage and Packaging

**Storage:**(1) If package is opened and resealed CropSIL® can be kept for upto 2 years at a temperature between 15°C and 25°C. (2) CropSIL® can be kept for upto +5 years in original unopened package at temperature between 15°C and 25°C.

Lot# \_\_\_\_\_ Mfg. Date \_\_\_\_\_

Domestic Packaging:  125 ml  250 ml  500 ml

Commercial packaging:  1 Litre (NW=1.13kgs)  5 Litre (NW=5.7kgs)  1 Tote (NW=275kgs)

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