



## 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. CropSIL® is a patent pending stabilized formulation of Ortho-Silicic Acid [Si(OH)<sub>4</sub>], it has a high pH, so it 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® is a high pH concentrate that drops when diluted with water, the final solution does not need to be adjusted before spraying. (7) A tank mix with other input may require pH adjustment.

#### CropSIL® Dilution Rates Acre (ac)

CropSIL® Fluid Ounce (fl. oz)	3.4 fl. oz	6.8 fl. oz	10.1 fl. oz	13.6 fl. oz	16.9 fl. oz	Domestic Uses: 5ml (1teaspoon)
Minimum quantity water	4.29 gal	8.58 gal	16.0 gal	32.0 gal	53.4 gal	3.7854 litre /1 gallon
Maximum quantity water	17.1 gal	34.2 gal	64.1 gal	128.3 gal	213.8 gal	15.1416 litre / 4 gallon

**Volumes and frequencies:** A total average of 50 fl. oz (1.5 Liters), of CropSIL® per acre (ac) per season. **DO NOT EXCEED** 85 fl. oz (2.5 Liters) of CropSIL® per (ac) per season unless recommended. The average dose of CropSIL® per application should be between 3.4 to 8.5 fl. oz per acre (excluding tree fruit and orchards). Treatments should be spread across the growing season ranging from 4 to 10 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 Acre (fl. oz)	Per Hectare (fl. oz)	Per Acre (fl. oz)	Per Hectare (fl. oz)
Pepper	9	21	4.12	10.17	37.10	91.53
Tomato	9	14	4.12	10.17	37.10	91.53
Potato	6	14	4.12	10.17	24.72	61.02
Cucumber	6	14	4.80	11.86	28.82	71.19
lettuce	5	10	3.43	8.48	17.16	42.37
Melon	6	14	4.12	10.17	24.72	61.02
Strawberries	8	10	3.43	8.46	27.44	67.68
Cannabis/Hemp	6	14	6.86	16.94	41.17	101.7
Tree Fruit	4	21	11.88	29.32	47.52	117.29
French beans	6	14	4.80	11.86	28.82	71.19
Grapes	5	21	8.24	20.34	41.17	101.7
Flowers	6	10	3.43	8.48	20.58	50.88
<b>1 Hectare (Ha) = 2.47 Acres (Ac)</b>	<b>1 Quart = 0.0312 fl. oz</b>	<b>1Litre = 1,000 ml</b>	<b>1 fl. oz. = 29.5 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 applied between 40°F to 80°F in good drying condition 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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