

SILAMOL®

Silicon-based Plant Supplement

Description

Silamol® is a concentrated form of available liquid Potassium Silicate, which forms $[Si(OH)_4]$ upon dilution, approved for use on greenhouses crops and domestic potted plants, to alleviate abiotic stresses such as water deficiency, Cadmium, Manganese and Aluminium toxicity stress, as well as Phosphorous deficiency stress.

Guaranteed Minimum Analysis

Available Silicon $[Si(OH)_4]$: 2.5%

Directions for Use

Silamol® can be applied with sprayers or in irrigation systems.

Dilution: Silamol® must be diluted in water. (1) Quantity of water depends on the type of spraying or irrigation, on equipment used, on the temperature at time of application, on the stage of plant development etc. (2) The dilution range has to be between 200 and 800 Litres (L) of water for 1 Litre of Silamol®. (3) Fill the tank with clean water and then add Silamol® and mix thoroughly. DO NOT add Silamol® first then water. (4) Before dilution, all sprayer and/or irrigation equipment must be clean and dry. (5) The final solution should have a pH between 5 and 6 (ideally 5.6). (6) Compatibility tests must be conducted first if any other products are to be used in conjunction with the application of Silamol®.

Dilution rates of Silamol®

Quantities of Silamol® (Millilitre or ml)	200 ml	250 ml	300 ml	350 ml	400 ml	Domestic uses: 3 ml (a tea-spoon)
Minimum quantities of water (1 L of Silamol for 200 L of water)	40L	50L	60L	70L	80L	0.60L
Maximum quantities of water (1 L of Silamol for 800 L of water)	160L	200L	240L	280L	320L	2.40L

Volumes and frequencies: apply a total average of 2 000 ml (2 L), of Silamol® per Hectare (Ha) per season. The dose of Silamol® should be between 200 to 400 ml maximum per Ha per application, depending on the application frequency. Some suggested applications, volumes and frequencies per crop are as follows:

Crop species	Suggested number of applications in a treatment	Suggested frequency: each 7, 10 or 14 days	Suggested applications and volumes		Total volume of Silamol® per season	
			Per Hectare (Ha)	Per metre² (m²)	Per hectare	Per metre²
Lettuce, escarole	5	10	5 x 250 ml	5 x 0.025 ml	1 250 ml	0.125 ml
Tomato	10	10	10 x 250 ml	10 x 0.025 ml	2 500 ml	0.250 ml
Pepper, eggplant	7	14	7 x 300 ml	7 x 0.030 ml	2 100 ml	0.210 ml
Cucumber, zucchini	6	10	6 x 300 ml	6 x 0.030 ml	1 800 ml	0.180 ml
Melon	7	10	7 x 350 ml	7 x 0.035 ml	2 450 ml	0.245 ml
Strawberries	10	7	10 x 200 ml	10 x 0.020 ml	2 000 ml	0.200 ml
Roses	6	7	6 x 300 ml	6 x 0.030 ml	1 800 ml	0.180 ml
Cannabis	8	10	8 x 300 ml	8 x 0.030 ml	2 400 ml	0.240 ml

Disclaimers: (1) If additional stresses are observed, the frequencies and/or volumes of applications, within the range of 200 to 400 ml maximum per Ha per application, might be increased. (2) Use as directed.

Other directions: (1) Treatment should start at first transplant or first leaves stage, and should terminate around 2 weeks before harvest. (2) The final solution should be applied within 4 hours after dilution, preferably early or late in the day, and above a temperature of 9°C.

Safety Precautions

(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

Silamol® can be kept for 2 years at a temperature between 15° and 25°C. Lot Number:..... Expiry Date:.....

Containers : 100 ml (Net Weight = 0.113kg), 1 Litre (Net Weight = 1.13kg), 5 Litres (Net Weight = 5.65kgs), 10 Litres (Net Weight = 11.30kgs)

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 Plant Health & Biosecurity Directorate
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