

SIRIUS

SIRIUS® is a unique silicon nutrient formulation that increases strength, growth and plant health.

PRODUCT SPECS

Active Agents	› 0-10-0+19% Silicon w/v
Agent Type	Silicon Micronutrient and Wetter

PRODUCT USES

Improves plant immunity	Balanced nutrient uptake
Improves spray distribution	Optimizes growth.

SIRIUS® is a unique new silicon nutrient for foliar and root application to increase the strength, growth and health of crops.

BIOLOGY

SIRIUS® is a fertilizer containing a unique form of silicon called silicic acid tetraethyl ester.

SIRIUS® reacts with the surrounding water to grab oxygen molecules and convert some of the silicon into silicon dioxide. If applied to the soil, plant roots take in **SIRIUS®** in the form of Silicic acid and transport majority of it to the shoots along with the water stream.

After reaching the leaves or being applied as foliar, silicic acid is deposited in the walls of epidermal cells, just beneath the cuticle. As water is lost through transpiration, silicic acid concentrates and polymerizes to solid silica gel. Silicon dioxide remains intracellularly. This results in the formation of a double layer of cuticle- silicon giving toughness to the plant tissues.

MODE OF ACTION

SIRIUS® Improves plant health through the following mechanisms:

- › Nutrition - Proven source of available silicon to the plant.
- › Optimizes overall growth potential.
- › Aids the balance of Nutrient uptake.
- › Reinforces leaf cuticle to protect against abiotic stress and limit susceptibility to biotic stress pressure.
- › Significantly Increases leaf hair production.

DIRECTIONS FOR USE

SIRIUS® is diluted with water and the resulting solution is applied as a foliar spray or applied as a spray on the soil surface. **SIRIUS®** can be used on a wide variety of crops including flowers, vegetables and turf.

RATE SCHEDULE

	Dosage per Ha	Interval
Foliar Application	0.25 - 0.5L	7 days

ADVANTAGES OF SIRIUS®

- › Proven source of available silicon.
- › Optimizes overall growth potential.
- › Increases plant immunity to diseases
- › Suppresses a wide range of insect pests including Thrips, Spider mites, whiteflies and Aphids.
- › Reinforces leaf cuticle.

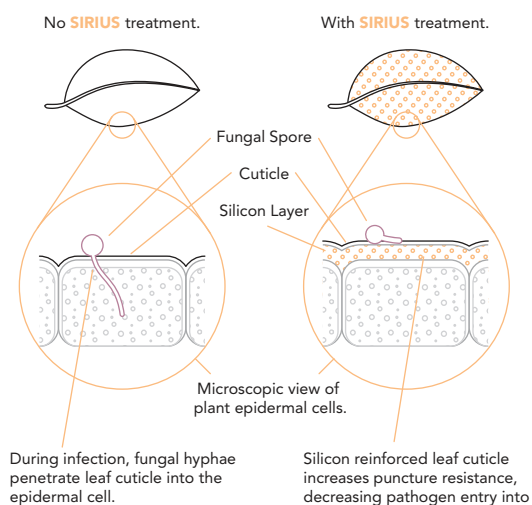


Fig. 1. Typical action of a **SIRIUS®** treatment.

STORAGE

Store **SIRIUS®** in a cool dry place, away from direct sunlight. May be kept for up to 2 years from the date of manufacture in the original unopened container under room temperature.

PACKAGING

Pack Size	5L bottle
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INTEGRATED PEST MANAGEMENT (IPM)

Before introducing **SIRIUS®**, it is important that the plant is clean of negative chemical residues. Please consult the Dudutech SIDE EFFECT GUIDE on dudutech.com for compatible chemicals.