



manage abiotic stress in Vegetables

The Product

- PHOTON 500 SG is 500 g/kg water soluble granule which is a blend of dicarboxylic acids. These compounds are naturally occurring in many species of plants.
- PHOTON 500 SG is available in 500 gram plastic jars with tamper evident lids.

What does PHOTON 500 SG do?

It manipulates the plant stress sensors so as it can react more quickly and effectively to stress events.

Mode of Action

NB: This is a translocated product (not a film)

PHOTON 500 SG reduces the impact of stress, such as excess light, heat, drought, chilling and other environmental conditions that can negatively impact crop growth. It is applied as a foliar spray and is taken in by the plant within 4-6 hours where it then translocates throughout the plant tissue. Once this uptake has occurred, the product is rain fast.

PHOTON 500 SG remains effective in the plant for approximately 21 days after which it becomes inert. Therefore a season long application program is required, to maintain the protection against abiotic stresses.

PHOTON 500 SG can be applied up to harvest on all crops, including fruits and vegetables.

Key Points about PHOTON 500SG

- No residue – can be used on all crops
- Very low rates = ease of mixing and use e.g. 20 to 40 g/ha
- Season long protection from abiotic stress
- Mode of action – systemic translocated product
- Rain fastness – uptake and trans-location in 4–6 hours
- A naturally occurring plant derived compound
- Compatibility with other tank mixes
- 3 years of trial work in Australia and overseas to prove efficacy

NB: Foliar applications should be made in sufficient water volume to provide adequate uniform coverage.

A surfactant should be added to aid in spreading over the leaf surface. Preferred surfactants include non-ionic or organo-silicone adjuvants. A buffer such as Spraybuff 700 should be added if the spray pH values exceed 8.0. Ideal spray solution pH is 6.0 - 7.0.



Always read the entire label prior to use.

Sipcam Pacific Australia Pty Ltd

For further information please call Sipcam or visit our website: sipcam.com.au

Phone: +61 3 5223 3746



DIRECTIONS FOR USE

Restraints: When applying PHOTON 500 SG to crops at a per 100L rate, the rate per hectare SHOULD NOT go below 20 g/ha or exceed 40 g/ha.ww

Photon 500 SG must be applied 4 -5 days prior to a stress event to achieve maximum performance.

FOLIAR APPLICATION

Crop	Situation	State	Use Rate		Critical Comments
			per/ha	per/100L	
Vegetables - (Annual and Biennial Crops)					
Fruiting vegetables including tomato, pepper, capsicum Cucurbits including melon, squash, cucumber, zucchini. Leafy vegetables including lettuce, chard, spinach Brassicas including broccoli, cabbage, cauliflower and Asian vegetables	Environmental stress mitigation To reduce transplant shock To reduce flower abortion & increase fruit set To improve fruit size & quality	All	20g/ha		Apply 20 grams PHOTON 500 SG per ha beginning immediately after transplant or two leaf stage for seeded or tuber crops. Repeat applications at 14-21 day intervals through to harvest. Early applications can be made as a band over the row. Apply after watering transplants. Apply 7-14 days prior to flowering. Repeat at 14-21 day intervals while flowering continues. Begin applications at flowering. Continue at 14-21 day intervals through to harvest.
Potato, sweet potato	Environmental stress mitigation To reduce cold stress	All	20g/ha		Apply 20 grams of PHOTON 500 SG per ha beginning immediately after transplant (Sweet Potato) or two leaf stage for seeded or tuber crops. Repeat applications at 14-21 day intervals through to harvest. Early applications can be made as a band over the row. To reduce cold stress apply prior to a cold event ensuring adequate coverage of the foliage.

FERTIGATION

Crop	Situation	State	Use Rate		Critical Comments
			per/ha		
Vegetables	Environmental stress mitigation	All	20g/ha at 10-14 day intervals OR 30g/ha at 14-21 day intervals.		Use a "constant dose application system" to ensure even distribution of PHOTON 500 SG is achieved across the crop via irrigation. Apply every 14-21 days during the growing season. Commence spray program at least 7 days before the onset of a heat or chill event. For best results, the second application should have been applied before the onset of a stress event. If a significant period of stress is approaching, the application interval should be reduced to 14 days.

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