



Using PHOTON 500SC for managing abiotic stress in Turf and Amenity Plantings

The Product

PHOTON 500 SG - is 500 g/kg water soluble granule which is comprised of a blend of dicarboxylic acids. These compounds are naturally occurring in all species of plants.

Mode of Action

NB: This a systemic product

PHOTON 500SG is applied as a foliar spray and is taken in by the plant within 4-6 hours, at which time the product is rain fast. It triggers a bio-chemical response in the plant cells, which occurs throughout the entire plant. When cells are stressed a key sensor protein becomes activated, and impacts over 400 enzymes, many involved in enabling the crop to deal with adverse conditions. Included are enzymes that protect chloroplasts and other cellular structures from damage. Especially important is the protection of various membranes by the sensor protein, keeping cells and their functions intact. Photon mimics activation of the sensor protein, prior to the damage occurring, maintaining crop health and productivity. As a naturally occurring plant compound Photon 500SG is depleted over time. At recommended application rates, the bio-chemical response will become inactive after approximately 21 days. Therefore a season long application program is required, to maintain the protection against abiotic stresses.

Key Points

- 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



Directions for Use

Restraints: When applying PHOTON 500 SG to crops at a per 1 00L rate, the rate per hectare SHOULD NOT go below 20 g/ha or exceed 40 g/ha.

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

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.

SITUATION	RATE	CRITICAL COMMENTS
Amenity plantings	4 g/100L or 40 g/1000 L	Apply at transplant and then every 21 days until plants are established
Turf grasses	4 g/100L or 40 g/1000 L	Apply every 21 days during periods of environmental stress NB: a maximum of 40 g/ha and a minimum of 20g/ha

NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER, CONTRARY TO THE LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.



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