



Characteristics

Formulation Type | Wettable powder

Active Ingredient | 97% Glycine Betaine

Package Size | 5 lb

Storage | 36 months at 77 °F (25 °C) or less, sealed and protected from moisture in the original packaging



WETTABLE
POWDER

LALSTIM OSMO

Protects plant tissues against negative effects of environmental stresses

LALSTIM® OSMO is a highly soluble product containing 97% natural Glycine Betaine, a persistent and powerful osmoprotectant that is absorbed rapidly and moved throughout the plant within 24 hours, remaining active at the cellular level for 2 to 4 weeks.

Mode of Action

LALSTIM OSMO facilitates water uptake and retention by acting as an osmoprotectant and adjusts the osmotic balance inside plant cells and tissues exposed to hyperosmotic stress. It enhances photosynthesis, nitrogen metabolism, and translocation during environmental stresses such as heat, cold, drought, and salinity.

Application Method

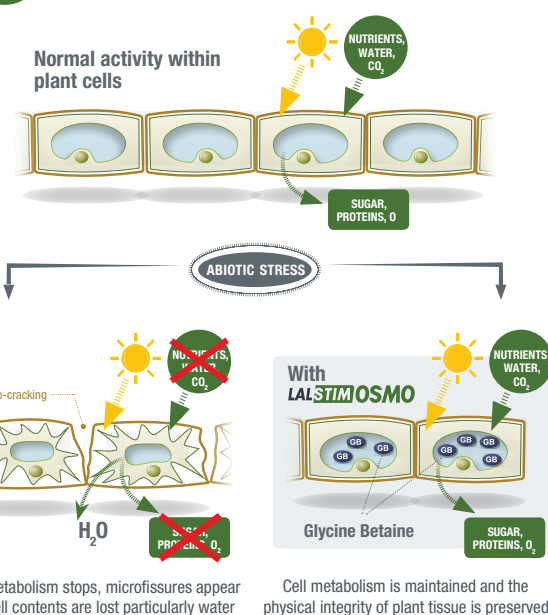
Apply as a foliar spray to point of wetness. Use of a non-ionic surfactant, added to the spray solution according to the manufacturer's instructions, is recommended to optimize penetration of LALSTIM OSMO into the plant. Compatible with pesticides and foliar fertilizers. It is advised to test for compatibility first or to consult your distributor or Lallemand Plant Care representative.

APPLICATION TIMING AND RATES

Timing varies by crop. Apply when relative humidity is high (e.g. late evening or early morning), to allow the tissue to stay wet longer and ensure better uptake of LALSTIM OSMO in the plant. Repeat every 2-4 weeks.

Benefits

- Improves and maintains crop performance and resilience under conditions of environmental stresses: heat, salinity, drought, and cold
- Reduces micro-cracking and desiccation injury
- Improves post-harvest quality shelf life
- Normal physiological state maintained by better osmotic balance and water retention
- Facilitates plant recovery and resumption of activity after stress



Crop	Application Rate (lbs/acre)	Application Volume (U.S Gallons/acre)	Target and Timing of Application(s)
Woody ornamentals (nursery)	1 – 2	40 – 100	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions
Transplant propagation	1 – 2	40 – 100	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions
Greenhouse ornamentals	1 – 2	40 – 100	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions
Hemp and hops	1 – 2	40 – 100	Heat stress, drought protection: Every 3 weeks during hot summer months every 2-3 weeks during stress conditions