



BIOSTIMULANT

Natural, crystallized and purified glycine betaine

LALSTIM OSMO

Anti-stress Osmoprotector

Improve the yield and quality of your crops

LALSTIM OSMO is a highly soluble powder containing more than 96% glycine betaine.

This powerful natural extract regulates the osmotic pressure of the plant cells and safeguards the functioning of the plant in conditions of abiotic stress (drought, rain, cold, salinity...).

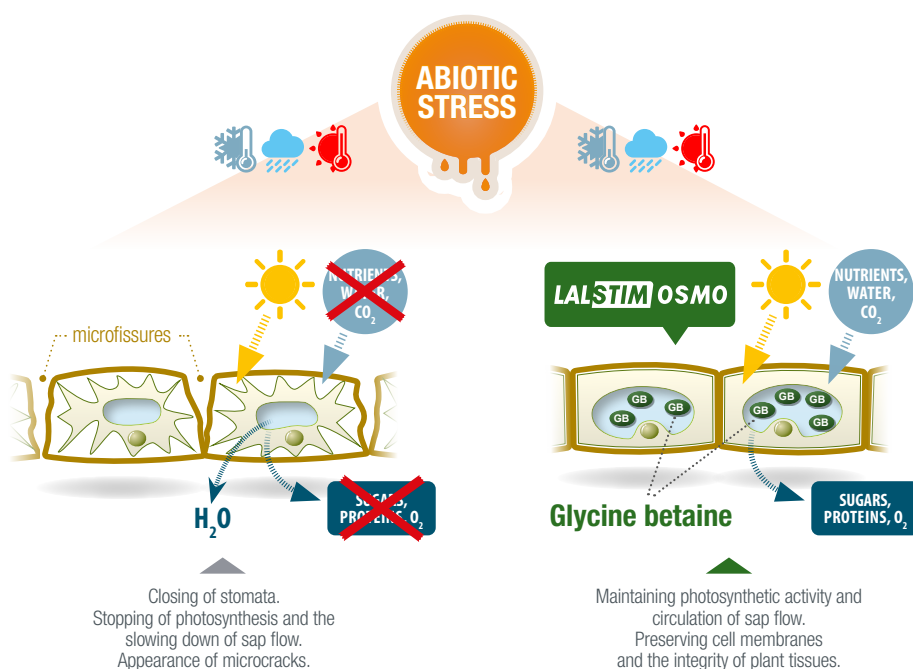


WETTABLE
POWDER

MODES OF ACTION

LALSTIM OSMO increases the water retention capacity of the plant:

- **Preserves photosynthetic activity**, the driving force behind the production of organic matter.
- **Improves the resistance of plant tissue and the stability of cell membranes.**
- **Boosts the circulation of sap flow and the mobilisation of water and nutrients** such as calcium and other trace elements.



BENEFITS

- **Safeguards the key phases of yield development.**
- **Improves quality and marketable yield.**
- **Promotes post-harvest storage.**

ADVANTAGES

- **Translocation:** 24 to 48 h
- **Systemic:** circulation throughout the plant
- **Persistent:** 3 to 4 weeks
- **100% natural**

APPLICATIONS

CROP	TARGET	DOSE	APPLICATION TIMINGS	METHOD OF APPLICATION
Grape Vines	Limiting the yellowing of foliage and berry wilting under heat/ water stress	2 kg/ha	From flowering	Foliar spraying
		2 kg/ha	Every 3-4 weeks in case of stress	
	Reducing berry cracking and improving the visual appearance of bunches	2 kg/ha	Bunch closure	
		2 kg/ha	Start to mid ripening	
Stone or Pome Fruit Trees	Increase in storage of fruits post-harvest	4 kg/ha	30 days before harvest	
	Reduction of 'Bitter pit' in apples	0.5 kg/ha application possible with Calcium	From the fruit set and then every 3 weeks until harvest	
		4 kg/ha	30 days before harvest*	
	Reduction of fruit cracking	2 kg/ha	15 days before harvest if rain occurs	
Lettuces	Reduction of 'Tip Burn'	2 kg/ha	For prevention (rosette to 3-4 leaves)	
		2 kg/ha	3 weeks after T1	
Tomatoes	Reduction of 'Blossom End-Rot'	2 kg/ha	Before the stress	
		2 kg/ha	3 weeks after T1	
		2 kg/ha	If heat persists or irrigation is irregular	
Strawberries	Increase in shelf life of fruit post-harvest	2 kg/ha	Green fruit stage	
		2 kg/ha	3 weeks after T1	
		2 kg/ha	3 weeks after T2	
Potatoes (firm flesh & seed)	Decrease in abortion Increase in tubers Evenness of calibres	1 kg/ha	Hook stage	
		1 kg/ha	15 days later	
Potatoes (consumption & industrial use)	Evenness of calibres Increase in average calibre	1 kg/ha	Nut stage	
		1 kg/ha	15 days later	
Peas Green Beans Flageolets	Safeguards flowering & pod filling Increases yield	1 kg/ha	Start of flowering	
		1 kg/ha	Full flowering (15 days after)	
Straw Cereals	Trace elements (Mn)	0.5 kg/ha	Tillering	
		0.5 kg/ha	1 node	
	Increase in foliar supply system	Other trace elements	End of tillering to 1 cm spike	
		Systemic fungicides	1 node to 2 nodes	
	Systemic fungicides	0.5 kg/ha	Last leaf open	
		0.5 kg/ha	Heading	
		0.5 kg/ha	Heading	
	Increase in proteins	Product alone	Swelling	
		With inputs of foliar nitrogen	Start of heading	

* Cherry trees: fruit beginning to turn pink

CHARACTERISTICS

- **ACTIVE INGREDIENT:** glycine betaine natural, crystallized and purified: >96%
- **FORMULATION:** wettable powder
- **PACKAGING:** 2 kg
- **STORAGE:** 24 months at room temperature
- **DEROGATION:** EM012.V
- **Usable in Organic Farming**

RECOMMENDATIONS

Preferably apply under good humidity conditions (>70%) but without precipitation for 24 hours.

COMPATIBILITIES

Can be mixed with fungicides and trace elements : refer to your distributor to determine compatibility.

Do not mix with herbicides.

LALLEMAND S.A.S.

4, route de Beaupuy • 31180 Castelnau-Maurou • France
Tel: +33 (0)5 34 27 67 80 • Fax: +33 (0)5 62 79 20 62
plantcare@lallemand.com