BIOSTIMULANT STONE FRUITS

LALSTIM OSMO

For preventing frost damage and improving the quality of stone fruit yield

LALSTIM® OSMO contains glycine betaine, an osmolyte naturally enhancing stress tolerance in plants. Glycine betaine is absorbed quickly by the plants, where it maintains the water balance and the normal activity of plant cells during environmental stresses. LALSTIM® OSMO prevents frost damage on fruit trees during the flowering stage, prevents fruit cracking and improves the storage stability of fruits.

MODES OF ACTION 3

LALSTIM® OSMO protects the normal physiological activity of plant cells during stress conditions:

- Maintains the water balance and prevents cell damage.
- Enhances photosynthesis.

microfissures

• Improves the circulatory flow of water and nutrients, especially calcium and other trace elements.

> ABIOTIC STRE

BENEFITS

 Prevents frost damage during the flowering stage

WETTABLE

POWDER

LALSTIM **OSMO**

- Prevents cracking of fruits
- Improves the quality and storage stability of fruits

ADVANTAGES

- Absorbed within 24 hours
- **Circulates systemically throughout** the plant
- Active for 3 weeks

MICROBIAL

BY NATURE

A protective compound naturally occurring in plants

With the help of glycine betaine, normal slows down, microfissures appear between cell metabolism and water balance are maintained

LALSTIM OSMO

GB

Glycine betaine

GB

GB GB GB GB



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During stress conditions, cell metabolism

cells and water is lost from the cell.







APPLICATIONS

CROP	TARGET	DOSE	APPLICATION Timings	APPLICATON METHOD
Cherry, plum and apricot	Preventing frost damage.	5–7 kg/ha	At the flowering stage, at latest 24 h before low temperatures.	Spray plants evenly moist. Water amount: 400–1000 I/ha.
	Preventing cracking and improving storage stability of fruits.	First treatment: 4 kg/ha	Cherry: at the early fruit coloring stage. Others: 4 weeks before harvest.	
		Second treatment: 2–4 kg/ha	2 weeks before harvest.	

- **Compatibility:** can be sprayed together with fungicides, insecticides • and foliar fertilizers, except for formulations containing copper.
- The use of adjuvant/wetting agent in open field is recommended.
- The best conditions for spraying application are during windless and • rainless weather, when the relative humidity is high.
- The maximum concentration of the spraying solution: 30 g/litre

RESULTS

Preventing fruit cracking

LALSTIM OSMO sprayings before harvest reduced the cracking of cherries on average 15 %. Heavy rainfall during the growing season increased the cracking susceptibility of cherries.



CHARACTERISTICS

- **COMPOSITION:** purified and crystallized glycine betaine from plant origin (97 %)
- FORMULATION: wettable powder •
- PACKAGING: 2 kg •
- STORAGE: 24 months at room temperature, in an • unopened package
- SUITABLE FOR ORGANIC AGRICULTURE •

LALSTIM OSMO spraying before harvest reduced the craking of apricots (cv. Magic Cot').



Improving the quality and storage stability of fruits

LALSTIM OSMO spraying increased the sugar content and firmness of cherries (cv. 'Skeena').



LALSTIM OSMO spraying at the ripening stage improved the storage stability of plums (cv. 'Mirabelle'). Photos have been taken after 30 days of cold storing.



NATURE



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