



# LALSTIM OSMO<sup>SP</sup>

## BIOSTIMULANT

Protects plant cells from negative environmental stress, improving growth during heat, cold, drought, frost, and salinity. Guards crops against physiological disorders.



SOLUBLE  
POWDER



FOLIAR  
APPLICATION



### MARKETED AND DISTRIBUTED BY

New Edge Microbials  
3 Moloney Drive,  
Wodonga VIC 3690, Australia  
[www.nem.com.au](http://www.nem.com.au)

### GUARANTEED BY

Danstar Ferment AG / LALLEMAND PLANT CARE  
Poststrasse 30  
CH-6300 Zug, Switzerland

### READ ALL DIRECTIONS BEFORE USING THIS PRODUCT



## NET WEIGHT: 2 KG

Expiration Date and batch number: See printing on bag

Made in Estonia



## DIRECTIONS OF USE

CROP	APPLICATION RATE (kg/ha)	APPLICATION VOLUME (L/ha)	TARGET AND TIMING OF APPLICATION(S)
Seedlings	1 - 2	400 - 1000	<b>Frost, drought, heat and salinity stress:</b> Spray at 2 to 3 week intervals, reapply depending on crop needs and environmental conditions.
Leaf Vegetables (e.g. lettuce)	2	400 - 800	<b>Frost, drought and heat stress:</b> Spray at 2 to 3 week intervals, depending on crop needs and environmental conditions.
Fruiting Vegetables (e.g. tomato)	2	200 - 1000	<b>Frost, drought and heat stress:</b> Spray at 2 to 3 week intervals, depending on crop needs and environmental conditions. <b>Tolerance to abiotic stress during flowering:</b> Apply during bud development and throughout flowering. Apply no later than 24 hours before risk of frost. <b>Reduce cracking from abiotic stress:</b> Begin spraying at start of colour development in fruit and repeat every 1-4 weeks through ripening
Potato	2	200 - 500	<b>Frost, drought and heat stress:</b> Spray at 2 to 3 week intervals, depending on crop needs and environmental conditions. <b>Abiotic stress tolerance:</b> At tuber initiation.
Grapevines	2	200 - 1000	<b>Frost, drought and heat stress:</b> Spray at 2 to 3 week intervals, depending on crop needs and environmental conditions. <b>Tolerance to abiotic stress during flowering:</b> Apply leading up to budburst and throughout flowering or at the latest 24h before the risk of frost. <b>Reduce cracking from abiotic stress:</b> 1st application at bunches closure (BBCH 77), 2nd application beginning of ripening (BBCH 81).
Fruit and Nut trees (e.g. apples, pears, apricots, peaches, citrus, almonds)	4 - 7	400 - 1000	<b>Frost, drought, heat and salinity stress:</b> Spray at 2 to 3 week intervals, depending on crop needs and environmental conditions. <b>Tolerance to abiotic stress during flowering:</b> Apply leading up to budburst and throughout flowering or at the latest 24h before the risk of frost.
	4 - 5	400 - 1000	<b>Reduce cracking from abiotic stress:</b> Apply at early colour development of the fruits. Repeat applications every 2-4 weeks up to harvesting depending on crop needs and environmental conditions.
Cherry	4 - 7	400 - 1000	<b>Frost, drought, heat and salinity stress:</b> Spray at 2 to 3 week intervals, depending on crop needs and environmental conditions. <b>Tolerance to abiotic stress during flowering:</b> Apply leading up to budburst and throughout flowering or at the latest 24h before the risk of frost.
	2 - 4	400 - 1000	<b>Reduce cracking from abiotic stress:</b> Apply at early colour change. Repeat application every 7-10 days up to harvesting depending on crop needs and environmental conditions.
Berries (e.g. strawberry, raspberry, blueberry)	1 - 2	400 - 1000	<b>Frost, drought, heat and salinity stress:</b> Spray at 2 to 3 week intervals, depending on crop needs and environmental conditions. <b>Tolerance to abiotic stress during flowering:</b> Apply during bud development or at budburst, and throughout flowering. Apply no later than 24 hours before risk of frost. <b>Reduce cracking from abiotic stress:</b> Apply at early colour development of the berries. Repeat application every 2-4 weeks up to harvest depending on crop needs and environmental conditions
ALL CROPS			<b>Calcium imbalance and nutrient translocation:</b> LALSTIM OSMO SP can be used in combination with calcium treatments and reapplied throughout the growing season as required. Apply 0.5-2 kg/ha of LALSTIM OSMO SP in combination with calcium treatments as needed based on crop demands and environmental conditions

### ACTIVE INGREDIENT:

Glycine betaine ..... 97%

### APPLICATION DIRECTIONS

**Withholding period:** Not required when used as directed.

**Method:** Apply as a foliar spray to the point of wetness. For vines and tree crops using high volume sprays (e.g. >1000 L/ha), apply LALSTIM OSMO SP at 400 g/100 L as a foliar spray to the point of wetness. Applications can be made at any crop stage. Reapply every 7 to 30 days, depending on crop requirements and environmental conditions.

**Compatibility:** Can be applied through most irrigation system types. Compatible with pesticides and foliar fertilisers in a tank mix, except some formulations containing copper (Cu), where phytotoxicity may occur. It is advised to verify physical and chemical compatibility of tank mixes with LALSTIM OSMO SP using a jar test before applying to any crop. For further information regarding application methods or compatibility please refer to the New Edge Microbials website [www.nem.com.au](http://www.nem.com.au) or contact the New Edge Microbials customer service team on +61 2 6025 0044.

**Timing and rates:** Timing varies by crop, stress and plant condition. Apply when relative humidity is high (e.g. late in the evening or early in the morning), to allow tissue to remain wet long enough to ensure optimum uptake of LALSTIM OSMO SP by the plant. For recommended application rates, timing and application volume please refer to the table above. LALSTIM OSMO SP should be dissolved into a sufficient volume of water to allow adequate even coverage of foliage and for foliage to remain wet long enough to ensure absorption (approx. 24 hours). For further information regarding application rates and timings please refer to the New Edge Microbials website [www.nem.com.au](http://www.nem.com.au) or contact the New Edge Microbials customer service team on +61 2 6025 0044.

### STORAGE AND DISPOSAL

Store in the original, unopened packaging in a cool, dry place. Use before expiration date, valid only for unopened bags stored in cool, dry conditions. If opened, reseal and store in the same conditions for up to six months. Avoid exposing it to temperatures > 35°C. Dispose of any unused product following applicable regulatory guidelines. Dispose of empty container according to local waste regulations.

### PRECAUTIONS

Do not breathe dust. Avoid exposure through inhalation, or to open wounds and eyes. Standard protective clothing and equipment including gloves, safety goggles and a respirator are recommended during handling and storage. Use this product in well ventilated areas.

First aid is not generally required.

NET WEIGHT:

2 kg

Date of manufacture, expiration date and batch number: See printing on bag

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