

LALSTIM OSMO

Naturally occurring osmoprotectant.
Protects plant cells against negative effects of environmental stresses. Soluble powder for foliar application.

READ ALL DIRECTIONS BEFORE USING THIS PRODUCT

CONTAINS NON-PLANT FOOD INGREDIENT

Soil Amending Guaranteed Analysis

Active Ingredient: Glycine betaine97%
Total Inert Ingredient (Water)3%

How It Works

Enhances photosynthesis, nitrogen metabolism, and translocation during environmental stresses such as heat, cold, drought, and salinity. Facilitates water uptake and retention by acting as an osmoprotectant. Adjusts the osmotic balance inside plant cells and tissues exposed to hyperosmotic stress. For use on trees, seedlings, ornamentals, leafy and fruiting vegetables, berries, hemp, potatoes, root crops, grapes, and tree fruit. For other uses, consult your crop advisor.

Precautions

KEEP OUT OF REACH OF CHILDREN

Do not breathe dust.

Application Method

Apply as a foliar spray to point of wetness. Use of a non-ionic surfactant, added to the spray solution according to manufacturer's instructions, is recommended to optimize penetration of LALSTIM® OSMO into the plant. Compatible with pesticides and foliar fertilizers in a tank mix, except some formulations based on copper (Cu), where phytotoxicity may occur. It is advised to test for compatibility first.

Application Timing And Rates

Timing varies by crop. Apply when relative humidity is high (e.g. late in the evening or early in the morning), to allow tissue to stay wet longer and ensure better penetration of LALSTIM® OSMO in the plant. Repeat every 3-4 weeks. For more detailed information, consult your crop advisor.

Storage & Handling Recommendations

Store in dry place at room temperature. Shelf-life in unopened package is 3 years from production date, stored at room temperature and protected from humidity. Once opened, protect from moisture. Dispose of all waste (contents and container) in accordance with local, state, and federal regulations.

Net Contents/Net Weight: 2.2 lb (1 kg)

Production date and batch number: See package

LIMITED WARRANTY

Danstar Ferment AG / LALLEMAND PLANT CARE ("Danstar") warrants that this product (the "Product") conforms to the product description on this label and is reasonably fit for the purposes set forth on the label when used in accordance with it. Danstar makes no warranty as to the Product's performance since the storage, use and application of the Product are beyond the control of Danstar.

To the extent permitted by applicable law, Danstar makes no other warranties of any kind and hereby disclaims all other warranties, whether oral or written, expressed or implied, including without limitation, the implied warranties of the merchantability and fitness for a particular purpose and the warranty of non-infringement. Buyer of the Product assumes the risk to persons and real or personal property arising from the use, application or handling of the Product.

Buyer's exclusive remedy for any and all losses, injury or damages resulting from a breach of this Limited Warranty shall be, at the election of Danstar, either the price paid by buyer for the Product purchased directly from Danstar, or the replacement of such quantity of the Product. Danstar shall not be responsible for any liabilities, damages, expenses, costs or other losses, including without limitation, loss of profits suffered in connection with the use of the Product and in no event shall Danstar be liable for any incidental, consequential, special or punitive damages to the buyer or any third party.

Buyers of the Product are deemed to have accepted the terms of this Limited Warranty upon opening the container containing the Product. The terms of this Limited Warranty may not be varied by any oral or written agreement.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html>

Guaranteed by:

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

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Crop	Application Rate (lbs/ac.)	Application Volume (US gallons/ac.)	Target and Timing of Application(s)
Leafy Vegetables (e.g. lettuce)	2	40 – 90	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions.
Fruiting Vegetables (e.g. tomato)	2	20 – 100	Tolerance to abiotic stress during flowering: Early flowering. Anticracking: At early color development of the fruits and repeated at later stage of fruit maturity.
Grapevines	2	20 – 100	Tolerance to abiotic stress during flowering: Early flowering. Anticracking: 1 st application at bunches closing (BBCH 77), 2 nd application beginning of ripening (BBCH 81).
Fruit and Nut Trees (e.g. apples, pears, apricots, peaches, citrus, almonds)	4 – 6	40 – 100	Tolerance to abiotic stress during flowering and frost: Early flowering or at the latest 24h before the risk of frost.
	4 – 5	40 – 100	Anticracking and improvement of post-harvest quality: At early color development of the fruits and repeated 4 weeks before harvesting.
Mature Street and Park Trees	4 – 6	40 – 100	Rate based on 100 trees per acre. Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions.
Nursery Trees	1 – 2	40 – 100	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions.
Seedlings	1 – 2	40 – 100	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions.
Cherry	4 – 6	40 – 100	Frost protection: During early flowering or at the latest 24h before the risk of frost.
	2 – 5	40 – 100	Anticracking: 2 applications; 1st at the color change from green to yellow and 2nd application 7-10 days later.
Ornamentals	1 – 2	40 – 100	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions.
Berries (e.g. strawberry, raspberry, blueberry)	1 – 2	40 – 100	Tolerance to abiotic stress during flowering and frost: Early flowering or at the latest 24h before the risk of frost.
			Anticracking and improvement of post-harvest quality: At early color development of the fruits and repeated 4 weeks before harvesting.
			Heat stress, drought protection: Every 3 weeks during hot summer months.
Hemp	1 – 2	40 – 100	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions.
Sugar Beet and Other Root Crops	2	20 – 40	Heat stress, drought protection: Every 3 weeks during hot summer months.
Potato	2	20 – 50	Abiotic stress tolerance: At the tuber initiation.