

LALFIX LIQUID PEA & LENTIL



PEA & LENTIL LIQUID INOCULANT

Two-Strain Liquid Inoculant for Pea and Lentil

For On-Seed and In-Furrow Application

READ ALL DIRECTIONS BEFORE USING THIS PRODUCT

Minimum Guaranteed Analysis

ACTIVE INGREDIENTS:<1% w/w

8 x 10⁹ CFU/mL *Rhizobium leguminosarum* biovar *viciae*

TOTAL INERT (OTHER) INGREDIENTS: Aqueous Carrier>99% w/w

HOW IT WORKS

The active ingredient in LALFIX® LIQUID Pea and Lentil is *Rhizobium leguminosarum* biovar *viciae*. *Rhizobium* is known to nodulate pea, lentil and faba bean roots and fix atmospheric nitrogen in a symbiotic relationship with the plants. LALFIX® LIQUID Pea and Lentil contains two strains of *Rhizobium leguminosarum* biovar *viciae* selected for enhanced performance and competitiveness in pea, lentil and faba bean production.

ON-SEED APPLICATION RATE

2.5 fl oz (74 mL) per bushel OR 2.0 fl oz (59 mL) per 50 lb unit. One case treats 10,000 lb of seed.

ON-SEED APPLICATION METHOD

- Ensure seed treater has been properly calibrated.
- Shake well to achieve uniform suspension of the product. Bacterial settling is normal.
- 2.5 fl oz (80 mL) of LALFIX® LIQUID for Pea and Lentil per bushel.
- Protect LALFIX® LIQUID for Pea and Lentil inoculated seed from direct sunlight or hot drying winds.
- Plant inoculated seed within 48 hours on bare seed for best results. Reinoculation with fresh product is recommended after 48 hours.
- Overapplication of LALFIX® LIQUID for Pea and Lentil could cause lodging or bridging of the seed in the planter box.
- Gently stir seed before planting to permit airflow and to prevent seed clumping.
- Some seed treatments may be harmful to the inoculants. A compatibility test should be conducted prior to use with other seed treatments.
- Do not mix with caustic fertilizers or pesticides.

IN-FURROW APPLICATION RATE

15 fl oz (443 mL) per acre or 37 fl oz (1,094 mL) per hectare. One case treats 28 acres (11 hectares).

IN-FURROW APPLICATION METHOD

- Ensure the tank and application methods are clean.
- Shake the bladder to uniformly suspend the *Rhizobium leguminosarum* biovar *viciae*
- Apply the inoculant with a minimum of 5 US gal (20 L) per acre of clean, non-chlorinated water.
- Calibrate the application equipment for the correct total volume of diluted product.
- Apply product directly on the seed within the furrow.
- Once mixed, use product within 24 hours and keep temperature below 80°F (26.7°C).
- Lallemand Plant Care recommends using an on-seed inoculant along with an in-furrow application.
- A compatibility test should be conducted prior to co-application with other products.
- Do not mix with caustic fertilizers or pesticides.

PRECAUTIONS

The active ingredient in LALFIX® LIQUID Pea and Lentil is naturally occurring *Rhizobium leguminosarum* biovar *viciae* cells. Persons allergic to bacteria should avoid using this product. If use by an allergic person is unavoidable, prevent the possibility of absorption by eye or skin contact, inhalation or ingestion to minimize the possibility of an allergic reaction. Standard protective clothing and equipment including gloves, safety goggles and a respirator are recommended when handling the product.

In case of contact with skin or eyes, immediately flush exposed areas with a continuous gentle stream of clean water. Seek medical attention if discomfort or irritation develops. Medical treatment should be based on the judgment of the physician in response to the reaction of the patient.

ACCIDENTAL RELEASE

Spilled liquid may be slippery. Flush spill area with adequate water to wash away slippery residues. In case of large spill, shut off release if safe to do so. Contain spill and clean up the material for disposal.

STORAGE & HANDLING RECOMMENDATIONS

The active ingredient in LALFIX® LIQUID Pea and Lentil is living microorganism and require specific storage conditions to ensure viability and product performance.

- Do not store product in areas where freezing will occur or where temperature will exceed 72 °F/22 °C.
- Store in a cool, dry place out of direct sunlight and wind.
- Use product before expiration date stated on the package. The expiration date is valid only for unopened bags stored under cool conditions (<72 °F/22 °C).
- Open package only when ready to use. Once open, use the entire package.
- Do not store opened bags of LALFIX® LIQUID for Pea and Lentil.
- Unused product should be disposed of in accordance with applicable federal, provincial or state, and municipal laws and regulatory guidelines.

LIMITED WARRANTY

Danstar Ferment AG/LALLEMAND PLANT CARE ("Danstar") warrants only that this product conforms to the product description on this label and is reasonably fit for the purposes set forth in the Directions for Use when used in accordance with them. However, ineffectiveness or other unintended consequences may result because of such factors as the use, storage or handling of the product contrary to the label instructions, all of which are beyond the control of Danstar.

To the extent consistent with applicable law, Danstar shall not be liable for indirect or consequential damages resulting from the use, storage or handling of this product.

DANSTAR MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

LALFIX® PEAT Pea and Lentil is a registered trademark of Danstar Ferment AG/LALLEMAND PLANT CARE.

Rhizobium leguminosarum biovar *viciae* strains are selected from a collaboration between Danstar Ferment AG/LALLEMAND Plant Care and the *Institut national de recherche pour l'agriculture, l'alimentation et l'environnement (INRAE)*.

Not a plant food product.

Not recommended for use as a fertilizer substitute.

Batch No.: see printing on the box

Expiry Date: see printing on the box

Guaranteed by:

Danstar Ferment AG/LALLEMAND PLANT CARE

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