

# LALFIX<sup>®</sup> PEAT CHICKPEA

## Two-Strain Inoculant for Chickpea

### Sterile Powder Peat

For On-Seed Application

READ ALL DIRECTIONS BEFORE USING THIS PRODUCT

#### MINIMUM GUARANTEED ANALYSIS

Active Ingredients..... <1%w/w  
1x10<sup>9</sup> CFU/g *Mesorhizobium ciceri*

Total Inert (Other) Ingredients: Carrier..... >99% w/w

#### How It Works

The active ingredient in LALFIX<sup>®</sup> PEAT Chickpea is *Mesorhizobium ciceri*. *Mesorhizobium ciceri* is known to nodulate chickpea roots and fix atmospheric nitrogen in a symbiotic relationship with the plant. LALFIX<sup>®</sup> PEAT Chickpea contains two strains of *Mesorhizobium ciceri* selected for enhanced performance and competitiveness in chickpea production.

#### Application Directions

- Apply 2.8 oz per 100 lb of seed.
- Each 252 oz case treats 9,000 lb of seed and each 42 oz packet treats 1,500 lb of seed.
- LALFIX<sup>®</sup> PEAT Chickpea contains a sticking component to aid in the adhesion of inoculant to the seed.
- LALFIX<sup>®</sup> PEAT Chickpea can be mixed in a drill box or applied to the seed and mixed while being augured into the drill.
- Some seed treatments may be harmful to inoculants. A compatibility test should be conducted prior to use with other seed treatments.
- Seed treated with LALFIX<sup>®</sup> PEAT Chickpea should be planted within 24 hours. Seed not planted within 24 hours should be re-inoculated.

#### Drill Box Method

Fill drill box 1/4 or 1/3 full of seed and mix inoculant thoroughly until seed is uniformly coated. Continue with the same process until drill is full of seed and thoroughly inoculated.

#### Auger Method

Apply the product at the recommended rate through a dry-powder applicator into the hopper of an auger as the seed is being augured into the drill. The inoculant will mix thoroughly onto the seed from the action of the auger.

#### User Tips

If planting chickpea for the first time (virgin soil) or if any of the other adverse conditions exist, such as high pH soils (above 7.3), land re-entering production after Conservation Reserve Program (CRP), long rotations or crops grown in areas with marginal rainfall or arid climates, it is recommended to increase the application rate per acre of the powder peat or double inoculate using seed-applied liquid or granular inoculants.

Product performance may be reduced in soil with high nitrogen levels or when applied with high levels of nitrogen fertilizer.

#### Precautions

The active ingredient in LALFIX<sup>®</sup> PEAT Chickpea is naturally occurring *Mesorhizobium ciceri* 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 while 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 reactions of the patient.

#### Storage and Handling Recommendations

The active ingredient in LALFIX<sup>®</sup> PEAT Chickpea is a living microorganism and requires specific storage conditions to ensure viability and product performance.

- Store bags in a cool (40-70°F/5-20°C) dry location and out of direct sunlight.
- Avoid freeze/thaw conditions.
- Store bags flat and off of the floor, and avoid prolonged direct contact with cold damp surfaces.
- Use this product before the expiration date located on the package.
- Use appropriate personal protective equipment and clothing such as gloves, safety glasses and dust respiration devices when handling the product.
- Open package only when ready to use. Once open, use the entire package.
- Do not store opened bags of LALFIX<sup>®</sup> PEAT Chickpea.
- 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 that this inoculant (the "Product") will contain the minimum number of live cells per millilitre/gram as specified on the Product label at the time the Product is first sold by Danstar. Danstar makes no warranty as to the Product's viability or performance since the storage, use and application of the Product and growing condition 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, express 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 or seeds treated with 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, requesting the Product to be applied to the seed, or use of seed to which the Product has been applied, whichever is earlier. The terms of this Limited Warranty may not be varied by any oral or written agreement. LALFIX<sup>®</sup> PEAT Chickpea is a registered trademark of Danstar Ferment AG / LALLEMAND PLANT CARE.

**Not a plant food product.**

**Not recommended for use as a fertilizer substitute.**

**Net contents:** 252 oz case (6 x 42 oz packets per case)

**Lot No.:** see printing on the bag

**Production date:** see printing on the bag

**Guaranteed by:**

Danstar Ferment AG / LALLEMAND PLANT CARE

Poststrasse 30

CH-6300 Zug, Switzerland

**Marketed by and distributed by:**

Lallemand Inc. / LALLEMAND PLANT CARE

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