

# Cell-Tech<sup>®</sup> NS peat nitrogen-fixing inoculant for

pea and lentil

## ATTENTION:

This Specimen label is provided for general information only.

### MINIMUM GUARANTEE ANALYSIS

ACTIVE: 5 x 10<sup>8</sup> viable cfu/g *Rhizobium leguminosarum* biovar *viciae*

INERT: peat-based carrier

### NON-PLANT FOOD INGREDIENT

Not a fertilizer substitute

### How it Works

The active ingredient in Cell-Tech<sup>®</sup> NS peat pea and lentil, the naturally occurring bacterium *Rhizobium leguminosarum* biovar *viciae*, grows on plant roots and forms root nodules which convert or fix nitrogen from the air into forms the plants can use.

### How to Apply

Cell-Tech NS peat can be applied as a dry application or applied to pre-moistened seed. Cell-Tech NS peat may be applied when transferring seed from the bin to the truck, or from the truck to the tank or seed cart. This product may also be applied directly to seed in the tank or seed cart. Cell-Tech NS peat should be mixed thoroughly with the seed and the seed should be evenly coated. Cell-Tech NS peat inoculated seed should be planted within 24 hours.

Apply Cell-Tech NS peat at a rate of 101 g (3.6 oz) per 25 kilograms (55 lb) of pea or lentil seed.

#### Dry Application:

- Pour the correct amount of Cell-Tech NS peat into drill hopper, as referenced in Table 1. Mix thoroughly.
- For bulk systems, Cell-Tech NS peat can be directly metered onto seed.

#### Slurry Method Application:

- Mix Cell-Tech NS peat with cool, clean, non-chlorinated water and apply to seed as a slurry, as referenced in Table 1.

Table 1. Application rates and bare seed planting windows.

Crop	Seed inoculated by one bag	Planting window (bare seed)
Pea	700 kg (1,500 lb, 25 bu)	24 hours
Lentil	700 kg (1,500 lb, 25 bu)	24 hours

### Seed Treatment Recommendations

Application with other seed treatments is possible, but may reduce the planting window. For up-to-date pesticide compatibility information, please call Novozymes BioAg Limited at 1-888-744-5662.

### Where to Use for Maximum Benefit

- Best nitrogen responses to Cell-Tech NS peat occur in soils that are low in available forms of nitrogen and populations of *Rhizobium leguminosarum*.
- If soils are extremely low in available nitrogen, below 16.8 kg N/ha (15 lb N/acre), Cell-Tech NS peat may be effective when used with a small amount of starter nitrogen fertilizer 11.2-16.8 kg N/ha (10-15 lb N/acre).

### Benefits of using Cell-Tech NS peat may be limited on:

- Soils with high nitrogen levels or with high application rates of nitrogen fertilizer.

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## Applicators and Other Handlers

The active ingredient in Cell-Tech NS peat nitrogen-fixing inoculant for pea and lentil is *Rhizobium leguminosarum* biovar *viciae* viable cells. Eye or skin contact, inhalation, or ingestion should be avoided. Wear standard protective clothing and equipment including gloves and safety glasses. Ensure adequate ventilation. Where exposure through inhalation may occur, use respiratory protective equipment. This product contains microorganisms that may have the potential to provoke sensitizing reactions; use appropriate personal protective equipment (PPE) to reduce exposure. Sensitized individuals should wear a NIOSH-approved respirator. In case of contact with skin or eyes, immediately flush exposed areas with plenty of water. Get medical attention if irritation occurs.

## Storage and Disposal

Cell-Tech NS peat requires specific storage conditions to ensure viability and product performance:

- Store Cell-Tech NS peat bags and Cell-Tech NS peat inoculated seed under cool conditions <20°C (68°F) away from sunlight and direct heat sources.
- Minimize temperature fluctuations.
- Avoid freeze/thaw cycles.
- Use entire contents of bag after opening.
- Use before the expiration date. The expiration date is valid only for unopened bags stored under the conditions listed above.
- Avoid contact with strong fertilizers.
- Use this product only in well-ventilated areas.

Unused Cell-Tech NS peat and Cell-Tech NS peat inoculated seed should be disposed of in accordance with applicable civil statutes. Information regarding the contents and levels of metals in this product is available on the internet at: <http://www.aapfco.org/metals.html>.

## Limited Warranty

The seller warrants that this product contains a minimum number of *Rhizobium leguminosarum* biovar *viciae* viable cells as specified on this label. The seller makes no other warranty expressed or implied as to product viability since product storage, use, and growing conditions are beyond the seller's control. Seller's guarantee is limited to the terms set out on the label and subject thereto. Buyer assumes the risk to persons or property arising from the use or handling of this product and accepts on that condition.