Cell-Tech® liquid nitrogen-fixing inoculant for peanut

CONTAINS NONPLANT FOOD INGREDIENT(S)

ACTIVE: 2 billion (2 x 10^9) viable cfu/ml *Bradyrhizobium* sp. *Arachis*

INERT: aqueous carrier >99%

Net Contents 4 x 1.1 gallon (4.2L)
Net Weight 37 lb

novozymes®

Novozymes BioAg Limited
3935 Thatcher Avenue
Saskatoon, SK Canada S7R 1A3
1-888-744-5662

Product of USA

Cell-Tech® liquid nitrogen-fixing inoculant for peanut

Read the entire label before using this product. Use only according to label directions.

How it Works

The active ingredient in Cell-Tech® liquid nitrogen-fixing inoculant for peanut is the bacterium *Bradyrhizobium* sp. *Arachis*. *Bradyrhizobium* sp. *Arachis* forms root nodules which convert, or fix, nitrogen in the air into forms the plant can use.

Directions for Use

Open package only when ready to use. Use before expiration date.

1. Clean the liquid system with a cleaning solution. Cell-Tech® liquid for peanut is a biological product, which may be sensitive to chemical residues.

2. Convert the sprayer to in-furrow application. Remove spray tips and replace with appropriate flow regulator "orifice discs." Proper orifice disc number may be determined from sprayer manual. The objective is to obtain a solid stream of liquid into the furrow. Place spraying assembly behind the seed planting assembly so that the solid stream of product will flow into the furrow and onto the seed. Cell-Tech® liquid for peanut should be on the seed in the furrow, not to the side, or above, nor below the seed.

3. Mixing instructions. Fill clean spray tank half full with clean, non-chlorinated water. Pull the Cell-Tech® liquid for peanut package from the carton, shake well, remove the cap and inner seal, and empty into the cleaned spray tank. For rapid dispensing, hold the Cell-Tech® liquid for peanut package over the spray tank and cut the corner of the bag. Add remainder of clean, non-chlorinated water to spray tank to the appropriate solution level. Cell-Tech® liquid for peanut will be mixed with this procedure and does not require agitation to remain in suspension. Use the diluted product within 24 hours. Do not allow the diluted tank mix to exceed 100°F.

4. Application rate/unit coverage. The Cell-Tech® liquid for peanut concentrate is applied in-furrow at a rate of 1 oz/1,000 feet of row. The quantity of Cell-Tech® liquid for peanut applied per acre varies depending upon the row width. The measurement chart below provides the recommended rate of Cell-Tech® liquid for peanut per acre and also indicates the number of acres treated with each Cell-Tech® liquid for peanut unit. Cell-Tech® liquid for peanut concentrate must be diluted with clean, cool, non-chlorinated water and applied with a liquid system. The application of the diluted liquid should be approximately 3 to 20 gallons/acre based on equipment used and soil moisture. Calibrate sprayer to deliver correct amount.

5. Adverse conditions. Hot/dry soil: minimize the harmful effect of hot/dry soil on the product by applying water as soon as possible (irrigated land). Pivot irrigation – begin the irrigation on the peanuts that were planted first.

Flooded/waterlogged soil: Cell-Tech® liquid for peanut may not perform as well in flooded or waterlogged soil.

U.S. Customary Measurements		
Row width (inches)	**Recommended Cell-Tech® Peanut Inoculant Rate (ounces/acre)**	**1.1 gallon unit treats (acres)**
30"	17	9
36"	15	10
38"	14	11
40"	13	12

1.1 gallon = 142 ounces

Applicators and Other Handlers

The active ingredients in Cell-Tech® liquid for peanut is *Bradyrhizobium* sp. *Arachis*. 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

- Store under cool and dry conditions, avoid temperatures consistently over 20°C/68°F.
- Avoid long term freezing conditions.
- Minimize temperature fluctuations.
- Store away from sunlight and direct heat sources.
- Use before the expiration date.
- Shake well before use.

Unused Cell-Tech® liquid for peanut should be disposed of in accordance with applicable federal, state, and local requirements.

Seed treated with Cell-Tech® liquid for peanut should not be used for food, feed, or oil purposes.

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