



LIQUID INOCULANT FOR PEANUTS



CONTAINS: Bradyrhizobium sp.

Please read all directions and specifications carefully before using this product.

This product contains live organisms that are sensitive to chemicals and harsh environmental conditions.

**NET WEIGHT OF CONTENTS: 10.05 lbs
135.25 fl. oz. of Vitalis PNI Inoculant**



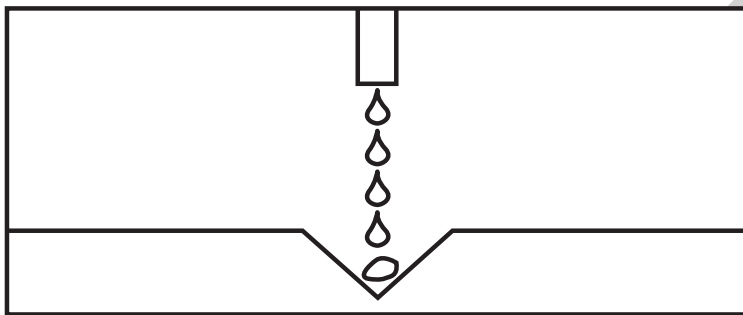
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Distributed By:
INNICTIS® CROP CARE, LLC
1880 Fall River Drive, Suite 100
Loveland, CO 80538

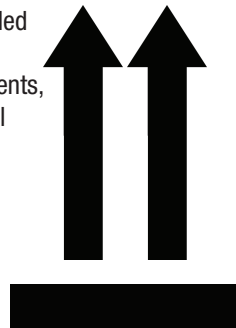
Directions for use:

1. Preparation of tank: Clean the liquid system to be used with an approved tank cleaner or cleaning solution. Vitalis PNI is a biological product which is sensitive to chemical residues.
2. Preparation of delivery system: Ensure liquid delivery system is working properly prior to mixing inoculant and non-chlorinated water. Orifice discs should be used instead of spray tips to deliver a solid, steady flow of liquid inoculant into the seed trench furrow. Periodically inspect hoses and orifices during planting to ensure system is working properly. It is critical that the inoculant to be placed directly into the seed furrow, ideally directly on top of the seed before the seed furrow is covered with soil. Placing the inoculant to the side or below the seed will result in limited performance of the product. Please see drawing below.



3. Preparation of Vitalis PNI: Pour entire contents of bladder into a clean liquid delivery system tank. Add cool, clean, non-chlorinated water to the appropriate level. Use a minimum of 5-10 gallons of water per acre to dilute the product properly. Mild agitation is recommended to obtain an even water/inoculant mixture. Do not mix more Vitalis PNI than can be used in one day. Do not allow the tank mix to exceed 80°F.
4. Application: The quantity of Vitalis PNI applied per acre varies depending upon the row width. The measurement table (on opposite panel) provides the suggested rates of Vitalis PNI per acre and also indicates the number of acres treated with each unit. Vitalis PNI is to be applied in-furrow at a rate of 1 ounce of concentrate/1000 feet of row (15 ounces/acre for 36 inch row width) and must be diluted with water to achieve optimum results. As stated above it is recommended that Vitalis PNI be diluted with clean, cool, non-chlorinated water at a rate of 5-10 gallons per acre. Water volume rates can depend on system capabilities, requirements, capacities, and planter speed. However, increased water volumes can be beneficial to aid in rhizobia sustainability and efficacy.

FOR IN-FURROW APPLICATION ONLY



5. **Twin-Row Planted Peanuts:** If planting twin-row peanuts, apply Vitalis PNI in both rows. Rhizobia bacteria move very little in the soil naturally. Therefore, it is essential that the inoculant be placed into both seed trench furrows. Please see chart below to determine application rates. Note: For twin-row planted peanuts, one unit will only treat 1/2 the amount of acres indicated in the chart.
6. **Hot/Dry Soil Conditions:** To achieve maximum results, plant into moist soils. In hot, dry soils irrigate ground starting with the seed that was planted first. Extended periods of hot, dry soils may have a detrimental effect on the viability of the rhizobium.

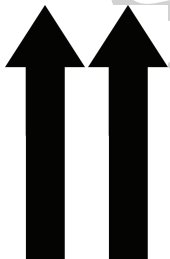
Row width in Inches	Suggested Vitalis PNI Rate ounces/acre	1 unit treats (acres)
30"	17	9
36"	15	10
38"	14	11
40"	13	12

MINIMUM GUARANTEE

This inoculant guarantees a minimum of 4 billion (4×10^9) viable cells per gram of *Bradyrhizobium* sp.

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