

# N-TAKE®

A PREMIUM LIQUID INOCULANT FOR PEA, VETCH, AND LENTIL

## KEEP OUT OF REACH OF CHILDREN

This product does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Read all label directions carefully before using this product. Use standard protective clothing and equipment including gloves, safety glasses and a NIOSH or MSHA approved nuisance dust mask during product handling and storage. See product SDS for additional health and safety information.

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

## GUARANTEED ANALYSIS

### CONTAINS NON-PLANT FOOD INGREDIENTS

Active Ingredient: < 1.0% by wt.

*Rhizobium leguminosarum biovar viceae* 7.2x10<sup>8</sup> CFU/g

Inactive Ingredients: > 99.0% by wt.

## DIRECTIONS FOR APPLICATION

- Use N-TAKE to inoculate only the legume(s) designated on this package.
- Use before the expiration date marked on the package.
- Label seed with the same expiration date if intended for resale.
- Do not mix more N-TAKE liquid than can be planted in one day.
- Do not allow the tank mix to exceed 90°F.
- Do not band, knife, or apply N-TAKE on top of the soil.
- The product should be placed as close to the seed as possible, due to *Rhizobia* migrating slowly in the soil.
- Plant into moist soils.
- Immediately irrigate the ground starting with the seed that was planted first, as extended periods of hot, dry soils may have detrimental effects of the viability of the *Rhizobium*.

## ON SEED APPLICATION

- Ensure treater has been cleaned and properly calibrated prior to use.
- Shake bladder before use.
- Apply N-TAKE at a rate of 1.75 fl. oz. per 50 pounds (22.7 kg) of seed.
- Apply recommended rate of N-TAKE directly onto the seed and mix until all seed is covered.
- Consult a Verdesian representative or the Verdesian website for a complete list of compatible seed treatments.

**CAUTION: Over application could cause bridging of the seed and seed flow problems in the planter.**

## DIRECTIONS FOR CONTINUOUS FLOW APPLICATION TO THE SEED

### ASSEMBLY:

- Shake box to distribute bacteria.
- Do not remove bladder from box as sunlight may damage bacteria.
- Lay the N-TAKE box on a flat surface to prevent product from spilling.
- Assemble application cap and tubing to the bladder bag.
- Insert hanging devise ("S" hook) into white grommet and hang from wagon.
- Make sure tubing hangs straight down at the base of the auger.

### CALIBRATION:

- Estimate seed flow through drill fill auger. Operate at 1/2 capacity to achieve best results.
- Use the table at right to determine N-TAKE rates.
- Initially calibrate N-TAKE flow below recommended rate and increase to proper rate.
- Collect a sample of N-TAKE for 10 seconds using a cup and adjust application devise to obtain the proper rate.
- Use clamp to start or stop flow of N-TAKE liquid.
- Proper rate of N-TAKE is when seed first becomes uniformly coated and completely glistens.

## SEED FLOW AND N-TAKE RATES

Seed Flow Per Minute		Recommended Rates of N-TAKE Liquid	
LBS	BU	OZ/10 seconds	OZ/minute
300 (136 KG)	5	1.75 (52 mL)	10.5 (311 mL)
360 (163 KG)	6	2.10 (62 mL)	12.6 (373 mL)
420 (191 KG)	7	2.45 (72 mL)	14.7 (435 mL)
480 (218 KG)	8	2.80 (83 mL)	16.8 (497 mL)
540 (245 KG)	9	3.15 (93 mL)	18.9 (559 mL)
600 (272 KG)	10	3.50 (104 mL)	21.0 (621 mL)
660 (299 KG)	11	3.85 (114 mL)	23.1 (683 mL)
720 (327 KG)	12	4.20 (124 mL)	25.2 (745 mL)
780 (354 KG)	13	4.55 (135 mL)	27.3 (807 mL)
840 (381 KG)	14	4.90 (145 mL)	29.4 (869 mL)
900 (408 KG)	15	5.25 (155 mL)	31.5 (932 mL)
960 (435 KG)	16	5.60 (166 mL)	33.6 (994 mL)
1020 (463 KG)	17	5.95 (176 mL)	35.7 (1,056 mL)
1080 (490 KG)	18	6.30 (186 mL)	37.8 (1,118 mL)
1140 (517 KG)	19	6.65 (197 mL)	39.9 (1,180 mL)
1200 (544 KG)	20	7.00 (207 mL)	42.0 (1,242 mL)

## IN-FURROW APPLICATION

- Shake bladder before opening for use.
- Calculate feet of row to be planted based on acres and row width.
- Dilute 87.5 fl. oz. of N-TAKE per 10 gallons of clean, non-chlorinated water at 30" row width.
- Apply at a rate of 70 fl. oz. per 1000 feet of row.
- Apply to the seed trench; do not apply banded to the side below, or above seed.

**NOTE: Higher rates of water per acre may be used, but must adjust volume of N-TAKE per gallon of water.**

- Best results with proper agitation or circulation of liquid in tank.
- Use the mix within 24 hours.

## STORAGE/DISPOSAL RECOMMENDATIONS

- Store in a cool, dry place out of direct sunlight.
- Keep from freezing.
- Store between 40°F and 77°F (4.4°C and 25°C).
- Open package only when ready for use.
- Use before expiration date.
- Do not allow product or packaging to become wet, or exposed to high humidity.
- Do not store product in an area to be fumigated.
- Small amounts of product which cannot be used according to the label instruction may be disposed of in a landfill.

## WARRANTY

Verdesian Life Sciences U.S., LLC warrants that this Product conforms to the specifications set forth on the label. This Product is reasonably fit for the purpose stated on the label when used in accordance with the label directions and instructions under normal conditions of use.

**VERDESIAN NEITHER MAKES, NOR AUTHORIZES ANY AGENT, REPRESENTATIVE OR THIRD PARTY TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, AS TO THE CONDITION, QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** Neither the warranty of merchantability nor fitness for a particular purpose, expressed or implied, extends to the use of this Product contrary to label instructions or under abnormal conditions or under conditions not foreseeable to the Seller or Verdesian.

Limitation of Remedies. The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories), shall be limited to, at Verdesian's election, one of the following: (1) replacement of the amount of product used; or (2) refund of the purchase price paid for the product; provided that Verdesian's provision of (1) or (2) is conditioned on its first being promptly notified of such loss or damage in writing. Verdesian shall not be liable to the buyer or any other party claiming by, through, or under the buyer for any other losses or damages resulting or relating to this product, including but not limited to any direct, indirect, special, punitive, economic, incidental or consequential damages or loss of profits, whether in contract, tort or otherwise. Verdesian neither assumes, nor authorizes any person to assume for it, any other liability in connection with the sale, storage, use or handling of this product other than expressly set forth herein.

NOT A PLANT FOOD PRODUCT.

PRODUCT NO: 2839  
(4) PACKAGES PER CASE  
54 CASES PER PALLET

POUNDS TREATED (CASE):  
10,000 LBS (4,536 KG)

NET WEIGHT PER PACKAGE:  
87.5 OZ

EACH PACKAGE INOCULATES:  
2,500 LBS



VERDESIAN

This product is manufactured by:  
**Verdesian Life Sciences, U.S., LLC.**  
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Cary, NC 27513

Customer Service:

**800-350-4789**