



Liquid

## SINGLE-ACTION SOYBEAN INOCULANT

READ ALL DIRECTIONS BEFORE USING THIS PRODUCT

### Guaranteed Minimum Analysis

4 x 10<sup>9</sup> viable *Bradyrhizobium japonicum* cells per ml

### Package Size Available

- 340 fl oz – 2 bladders per case, each bladder treats 10,000 lbs of seed
- 85 fl oz – 4 bladders per case, each bladder treats 2,500 lbs of seed

### On-Seed Application Rate

3.4 fl oz per 100 lb of seed

### On-Seed Application Method

- Ensure seed treater has been properly calibrated.
- Shake well to achieve uniform suspension of the product. Bacterial settling is normal.
- Apply 3.4 fl oz of BYSI-N liquid for soybeans per 100 lb of seed.
- Protect BYSI-N liquid for soybeans inoculated seed from direct sunlight or hot drying winds.
- Plant inoculated seed within 30 days for best results. Apply with BioProtector Add-It® to extend this period of time.
- Over-application of BYSI-N liquid for soybeans could cause lodging or bridging of the seed in the planter box.
- Gently stir seed before planting to permit airflow and to prevent seed clumping.
- Some seed treatments may be harmful to the inoculants. A compatibility test should be conducted prior to use with other seed treatments.
- Do not mix with caustic fertilizers or pesticides.

### In-Furrow Application Rates

- Apply 7 fl oz of BYSI-N liquid for soybeans per acre
- 340 fl oz bladder will treat 50 acres
- 85 fl oz bladder will treat 12.5 acres

### In-Furrow Application Method

- Ensure the tank and application methods are clean.
- Shake the bladder to uniformly suspend the *Bradyrhizobium japonicum*.
- Apply the inoculant with a minimum of 5 US gallons of clean, non-chlorinated water per acre.
- Calibrate the application equipment for the correct total volume of diluted product.
- Apply product directly on the seed within the furrow.
- Once mixed, use product within 24 hours and keep temperature below 80°F.
- Lallemand Plant Care recommends using an on-seed inoculant along with an in-furrow application.
- In-furrow application rate of BYSI-N liquid for soybeans should be increased if this is the sole form of inoculant or if planting into harsh conditions.
- A compatibility test should be conducted prior to co-application with other products.
- Do not mix with caustic fertilizers or pesticides.

### How it Works

The active ingredient in BYSI-N liquid for soybeans is *Bradyrhizobium japonicum*. *Bradyrhizobium japonicum* is known to nodulate soybean roots and fix atmospheric nitrogen in a symbiotic relationship with the soybean plant.

## Storage and Handling Recommendations

- Do not store product in areas where freezing will occur or where temperature will exceed 72°F/22°C.
- Store in a cool, dry place out of direct sunlight and wind.
- Use before expiration date stated on the package. The expiration date is valid only for unopened bags stored under cool conditions (<72°F/22°C).
- Open package only when ready to use. Once open, use the entire package.
- Do not store opened bags of BYSI-N liquid for soybeans.
- Unused BYSI-N liquid for soybeans should be disposed of in accordance with applicable federal, provincial or state, and municipal laws and regulatory guidelines.

## Precautions

The active ingredient in BYSI-N liquid for soybeans is naturally occurring *Bradyrhizobium japonicum* 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 respirator are recommended while handling the product. Do not wear contact lenses 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 reactions of the patient.

## Accidental Release

Spilled liquid may be slippery. Flush spill area with adequate water to wash away slippery residues. In case of large spill, shut off release if safe to do so. Contain spill and scoop up the material for disposal.

## Limited Warranty

Danstar Ferment AG / LALLEMAND PLANT CARE ("Danstar") warrants that this inoculant (the "Product"), will contain the minimum number of live cells per milliliter/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.

Not a plant food product.

Not recommended for use as a fertilizer substitute.

For a list of compatible seed treatments, alternate application methods, or additional information contact:

### Guaranteed by:

Danstar Ferment AG / LALLEMAND PLANT CARE  
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CH-6300 Zug, Switzerland

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