

**Dyna-Start® X2 Peanut Inoculant
Two-Strain Liquid Inoculant for Peanuts
For In-Furrow Application**

The active ingredient in Dyna-Start® X2 Peanut Inoculant is *Bradyrhizobium* spp. *Bradyrhizobium* is known to nodulate peanut roots and fix atmospheric nitrogen in a symbiotic relationship with the peanut plant. Dyna-Start® X2 Peanut Inoculant contains two selected strains of *Bradyrhizobium* for balanced performance under a variety of growing conditions.

Not a plant food product.

Not recommended for use as a fertilizer substitute.

READ ALL DIRECTIONS BEFORE USING THIS PRODUCT

MINIMUM GUARANTEED ANALYSIS

Active Ingredients:<1% w/w
2x10⁹ CFU/ml *Bradyrhizobium* spp.

Total Inert (Other) Ingredients: Aqueous Carrier.....>99% w/w

KEEP OUT OF REACH OF CHILDREN

CAUTION

Harmful if swallowed. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. See Safety Data Sheet for additional information. In addition, follow precautionary statements on labels of the accompanying pesticide(s).

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL 1-866-944-8565.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

Product Code:

Net weight: 37 lbs per case

Net contents: 4 x 1.1 Gallons, 4.4 Gallons per case (563 fl oz)

Application Rate: 1.0 fl oz of Dyna-Start® X2 Peanut Inoculant per 1,000 feet of row

Application Table

Row Width	Rate of Dyna-Start® X2 (fl oz /acre)	Acres Treated by 4.4 Gallon Case	Acres Treated by 1.1 Gallon Bladder
30"	17	33.1	8.3
36"	15	37.5	9.4
38"	14	40.2	10
40"	13	43.3	10.8

Directions For Use

1. Clean the liquid system with a cleaning solution – Dyna-Start® X2 Peanut Inoculant is a biological product, which may be sensitive to chemical residues.
2. Shake the bladder to uniformly suspend the *Bradyrhizobium* spp.
3. Apply the inoculant with a minimum of 5 US gallons (20 liters) of clean, non-chlorinated water per acre. Increased water volumes are not harmful and may be beneficial to rhizobia establishment.
4. Apply 1.0 fl oz of Dyna-Start® X2 Peanut Inoculant per 1,000 feet of row. See application table for guidelines. Double this application to 2.0 fl oz of Dyna-Start® X2 Peanut Inoculant per 1,000 feet of row in twin-row systems (acres treated by package will be half).
5. Calibrate the application equipment for the correct total volume of diluted product.
6. Apply product directly on the seed within the furrow. Use orifice disks to obtain a steady stream of inoculant mix into the furrow.
7. Once mixed, use product within 24 hours and keep temperature below 90°F (32°C).
8. Care should be taken to mitigate the effects of dry and hot soil on rhizobia bacteria survival through the use of irrigation after plant.
9. Do not mix Dyna-Start® X2 Peanut Inoculant with caustic fertilizers or pesticides.
10. Some co-mixes may be harmful to inoculants. A compatibility test should be conducted prior to use with other products.

Precautions

The active ingredients in Dyna-Start® X2 Peanut Inoculant are naturally occurring *Bradyrhizobium* spp. strains. 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 clean up the material for disposal.

STORAGE/PRECAUTIONS

The active ingredient in Dyna-Start® X2 Peanut Inoculant is a living microorganism and requires specific storage conditions to ensure viability and product performance.

- Do not store product in areas where freezing will occur, or where temperature will exceed 72°F/22°C.
- Store inoculants in a cool, dry place out of direct sunlight and wind.
- Use before expiration date stated on the package. The expiry 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 Dyna-Start® X2 Peanut Inoculant.
- Unused product should be disposed of in accordance with applicable federal, provincial or state, and municipal laws and regulatory guidelines.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC: 1-800-424-9300

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. Box 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

For non-emergency (e.g., current product information), call Loveland Products, Inc.: 1-888-574-2878.



P.O. BOX 1286, GREELEY, COLORADO 80632-1286