

Launcher™

Liquid Soybean Inoculant



PRINCIPAL FUNCTIONING AGENTS

Bradyrhizobium japonicum in an aqueous solution.
Contains naturally occurring, non-pathogenic *Rhizobium* bacteria.

This product contains a minimum of four $\times 10^9$ bacteria per milliliter.

KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

If medical advice is needed, have product container or label at hand. Read label before use. Wash protective equipment and work clothes thoroughly after handling.

FIRST AID

If Swallowed: Call a POISON CENTER/doctor or Chemtrec if person feels unwell. Rinse mouth. Have person sip a glass of water if able to swallow. It is recommended to induce vomiting if a great volume has been swallowed (>500 mL). Do not give any fluids to an unconscious person.

If In Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

If On Skin: Wash affected area with plenty of soap and water. Use tepid water if available. If skin irritation occurs: Get medical advice or attention.

If Inhaled: Move person to fresh air. If person is having difficulty breathing, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER/doctor or Chemtrec if person feels unwell.

GENERAL INFORMATION

LAUNCHER is a naturally occurring, non-pathogenic *Rhizobium* bacterium. These are symbiotic nitrogen-fixing bacteria, to be applied as a seed treatment, prior to planting soybeans, or as an in-furrow placement at the time of planting.

DIRECTIONS FOR USE ON SEED

Use before expiration date. Shake this container well before use to ensure a uniform suspension. Settling of bacteria is normal during storage. Once opened, use the entire contents of this container within 24 hours. Treated seed will appear damp and be slightly sticky. Once dry, seed will not stick together. Any clumping will disappear with minimal movement. Do not over-apply LAUNCHER to seed. Over-application will cause seed to become sticky. If seed does clump together, or bridge, break clumps and bridging before planting. Protect inoculated seed from direct sunlight. Plant inoculated seed within 24 hours.

APPLICATION TECHNIQUES

Three application methods are recommended:

1. Apply through on-farm or commercial seed treatment equipment. Refer to the calibration information of the equipment being used to achieve the desired application rate. This is the preferred method to ensure thorough seed coverage.
2. Utilize a calibrated dispensing unit (such as a drip tube) to apply directly to seed at the base of an auger. It is recommended that the auger operate at 50% of capacity, with a minimum 5 ft. run, to allow for thorough seed coverage.

3. Directly in the planter box. Fill the planter box to 50% capacity, then apply the proper amount of LAUNCHER to the seed and mix thoroughly. Finish filling the planter box, and then apply the balance of LAUNCHER to achieve the prescribed rate and mix thoroughly. THIS METHOD MAY NOT PROVIDE UNIFORM SEED COVERAGE AND OPTIMUM PERFORMANCE.

APPLICATION RATES ON SEED

Apply LAUNCHER at the rate of 1.5 fl. oz. (45 ml) per 50 lbs. (22.68 kg) of seed.

DIRECTIONS FOR USE IN FURROW

Use before expiration date. Shake this container well before use to ensure a uniform suspension. Settling of bacteria is normal during storage. Dispense the entire contents of the container into a holding tank on the planter that has been thoroughly cleaned of any pesticide residue. Dilute Launcher with cool, clean non-chlorinated water to achieve an application rate of 10 gallons of water plus Launcher in a dilute solution per acre. Planter tank holding the dilute Launcher solution should be agitated occasionally during use to prevent settling, used within 24 hours of mixing and maintained below 80°F.

APPLICATION TECHNIQUES IN-FURROW

Adjust planter delivery tubes to ensure liquid placement directly on the seed in the furrow. Placement above, below or to the side of the seed will reduce product performance.

APPLICATION RATES IN-FURROW

Apply LAUNCHER at the rate of 6.8 fl. oz. (201 ml) per acre. When diluted with 10 gallons of water per acre, the use rate is 72 fl. oz. per 1,000 foot of row in 30" rows, 36 fl. oz. per 1,000 foot of row in 15" rows.

STORAGE AND DISPOSAL

Protect product from freezing. If product freezes, warm to room temperature before use. Store in original container only and do not reuse empty container. Rinse container thoroughly, disposing of rinsate and the containers in accordance with federal, state and local regulations.

CONDITIONS OF SALE

Note: Read the information contained herein before buying or using this product. If the stated terms are not acceptable, return the product at once, unopened. It is critical that this product be used and mixed only as specified on this label. Neither the manufacturer nor the seller makes any representation or warranty, expressed or implied, with respect to the results from the use of this material. Buyer and user assume all risks of use and/or handling. Precision Laboratories, LLC warrants that this material is reasonably fit for use as specified on this label. No agent or representative is authorized to make any other representations concerning this material. Unforeseen factors beyond Precision's control prevent elimination of risks in connection with the use of its chemicals. Such risks include, but are not limited to, damage to plants and/or crops to which the material is applied, or lack of complete control and damage caused by drift to other plants or crops. Such risks may occur even though the product is reasonably fit for use as stated herein and even though label directions are followed. Follow directions carefully. Timing, mixture, method of application, weather and other conditions are influencing factors in the use of this product and are beyond the control of the seller. Except to the extent prohibited by applicable law, the exclusive remedy of the user or buyer and the limit of liability of the company or any other seller for any and all losses, personal injuries or damages resulting from the use of this product, shall be the purchase price paid by the user or buyer for the quantity of product involved.

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