

# JumpStart® Wettable Powder Inoculant Soybean

## soybean

### ATTENTION:

**This specimen label is provided for general information only.**

- This biological product may not yet be available or approved for sale or use in your area.
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### Improved Phosphate Availability

#### MINIMUM GUARANTEED ANALYSIS

ACTIVE:  $7.2 \times 10^8$  cfu/g *Penicillium bilaiae*

INERT: wettable powder

#### NONPLANT FOOD INGREDIENT

Not a fertilizer substitute

## Warning

May form combustible dust concentrations in air [with packages greater than 25 kg].

Read the entire label before using this product. Use only according to label directions.

### How it Works

The active ingredient in JumpStart® Wettable Powder Inoculant Soybean is the soil fungus *Penicillium bilaiae*, which grows on plant roots and makes less-available residual soil phosphate available for crop use.

### Directions for Use

Easy to use applicators are available for inoculating seed with JumpStart Wettable Powder Inoculant Soybean. JumpStart Wettable Powder Inoculant Soybean can also be applied during seeding using on-the-go treaters (refer to on-the-go treaters manual for application instructions).

- Apply the JumpStart suspension to seed using a flow regulated applicator when transferring seed from the bin to the truck, or from the truck to the tank or seed cart.
- Fill the applicator tank with the required volume of cool, clean water (refer to Table 1).
- While mixing continuously, slowly add the entire contents of the JumpStart Wettable Powder Inoculant Soybean container to the required volume of water in the applicator tank.
- Do not split a bottle of JumpStart. Use the entire contents.

JumpStart can be used with all nitrogen-fixing rhizobial inoculants. To mix JumpStart Wettable Powder Inoculant Soybean with a liquid inoculant, first suspend the entire contents of the JumpStart Wettable Powder Inoculant Soybean bottle in a small amount of the liquid inoculant for easier mixing. Pour the mixture into the remaining liquid Rhizobia inoculant and mix to suspend. No additional water is necessary.

JumpStart Wettable Powder Inoculant Soybean applied to bare soybean seed should be planted according to the planting windows listed on Table 1.

**Table 1. Application rate for JumpStart Wettable Powder Inoculant Soybean**

57 g (2.0 oz) container			
Crop	Seed inoculated by one 57 g (2.0 oz) container	Approximate Water Volume	Planting Window
Soybean	1,135 kg (2,500 lb, 50 bu)	3.5 L (3.9 US quarts)	120 days (at 4°C)
			30 days (at 15°C)

Once JumpStart Wettable Powder Inoculant Soybean is mixed in water, apply to seed within 6 hours.



Manufactured For  
and Guaranteed By:  
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# JumpStart® Wettable Powder Inoculant Soybean

## Seed treatment recommendations:

- JumpStart Wettable Powder Inoculant Soybean can be used with most seed-applied treatments but the planting window will be reduced.
- For up-to-date pesticide compatibility and bare seed stability information, please contact Monsanto Company at 1-877-775-8787.

## Where to use for maximum benefit:

### For soils low to medium in available phosphate:

- Use JumpStart Wettable Powder Inoculant Soybean with the lower recommended P fertilizer rate from soil test results. If you do not soil test, use with your normal P fertilizer rate.

### For soils high to very high in available phosphate:

- Replace the starter in-row P fertilizer application (16.8–22.4 kg P<sub>2</sub>O<sub>5</sub>/ha [15–20 lb P<sub>2</sub>O<sub>5</sub>/ac]) with JumpStart Wettable Powder Inoculant Soybean.

### Benefits of using JumpStart Wettable Powder Inoculant Soybean may be limited on:

- Soils that have been heavily manured (likely to be high to very high in available phosphate);
- In soils that do not tie up phosphate, i.e., very sandy soils (greater than 85% sand) and soils that contain more than 14% organic matter.

## Applicators and Other Handlers

The active ingredient in JumpStart Wettable Powder Inoculant Soybean is *Penicillium bilaiae* spores. Eye or skin contact, inhalation, or ingestion should be avoided. Wear standard protective clothing and equipment including gloves, safety glasses. Ensure adequate ventilation. Where exposure through inhalation may occur, use respiratory protective equipment. This product contains microorganisms that may have the potential to provoke sensitizing reactions; use appropriate personal protective equipment (PPE) to reduce exposure. Sensitized individuals should wear an NIOSH-approved respirator. In case of contact with skin or eyes, immediately flush exposed areas with plenty of water. Get medical attention if irritation occurs.

## Storage and Disposal

The active ingredients in JumpStart Wettable Powder Inoculant Soybean are living organisms and require specific storage conditions to ensure viability and product performance. To maintain product viability:

- Store JumpStart Wettable Powder Inoculant Soybean containers and seed to which JumpStart Wettable Powder Inoculant Soybean has been applied under cool conditions <20°C (68°F) away from sunlight and direct heat sources.
- Minimize temperature fluctuations.
- Avoid freeze/thaw cycles.
- Use entire contents of container once opened.
- Use before the expiry date. The expiry date is valid only for unopened containers stored under the conditions listed above.
- Use before expiration date.

Unused JumpStart Wettable Powder Inoculant Soybean and unplanted seed to which JumpStart Wettable Powder Inoculant Soybean has been applied should be disposed of in accordance with applicable federal, provincial, and local requirements. Seed treated with JumpStart Wettable Powder Inoculant Soybean is not recommended for food, feed or oil purposes.

## Limited Warranty

The Seller warrants that this product contains a minimum number of *Penicillium bilaiae* colony forming units as specified on this label. The Seller makes no other warranty expressed or implied as to product viability or performance since product storage, use and growing conditions are beyond the Seller's control. Seller's guarantee is limited to the terms set out on the label and subject thereto. Buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition. If this product does not perform as warranted above, and to the extent consistent with applicable law, customer's sole remedy for breach of warranty shall be replacement of the product or refund of the purchase price paid, at the option of Monsanto Company.

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