

JumpStart[®] granular

inoculant

canola, barley, flax, mustard,
oat, pea, lentil, soybean,
wheat, and canary seed

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.
- It is your responsibility to follow all Federal, state/provincial and local laws and regulations regarding the use of biologicals.
- Before using any biological, be sure the intended use is approved in your state/province or locality.
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- You should not base any use of a similar product on the precautions, instructions for use or other information you find here.
- Always follow the precautions and instructions for use on the label of the biological you are using.

MINIMUM GUARANTEED ANALYSIS

ACTIVE: 1.3 x 10⁶ cfu/g *Penicillium bilaiae*

INERT: peat granules and water

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[®] granular inoculant 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

Shipping and stacking of JumpStart granular may cause some granules to become compacted. Loosen compacted granules before transferring using this product.

JumpStart granular should be applied directly with the seed in the seed row using a granular tank for application. Application rates will vary according to row spacing; refer to Table 1 for details. Apply in-furrow only. Do not band. Do not mix JumpStart granular in the same tank with fertilizers,

granular pesticides, or seed. JumpStart granular can be used with pesticide treated seed. Do not leave JumpStart granular in tank or seed cart overnight. Be sure to calibrate your equipment to deliver the correct amount of JumpStart granular per acre for your row spacing, refer to Table 1 for details. Under humid conditions, reduce the weight of JumpStart granular per tank and check flow on a regular basis.

Calibrate with 50 kg before adding more inoculant to the tank or seed cart. A maximum of 264 kg (582.4 lb) per tank should be used.

- Before using, make sure the hopper, rotor, feed mechanism, and calibration equipment are free from chemical residue, fertilizer, and debris.
- Make sure that the tubing to the planting shoe is as straight and vertical as possible.
- If using an air seeder, ensure that the tank screen is clean when filling tank or seed cart. Follow calibration instructions supplied by the air cart manufacturer. Check flow regularly.
- If augering, please do so at low speeds to avoid damage to JumpStart granular.

Table 1. Application Rates for JumpStart granular

Row spacing	15.2 cm (6.0 in)	20.3 cm (8.0 in)	22.9 cm (9.0 in)	25.4 cm (10.0 in)	30.5 cm (12.0 in)
Application rates	6.1 kg/ha (5.5 lb/ac)	4.6 kg/ha (4.1 lb/ac)	4.0 kg/ha (3.6 lb/ac)	3.7 kg/ha (3.3 lb/ac)	3.1 kg/ha (2.7 lb/ac)

Note: The bulk density for JumpStart granular averages 0.7 g/cm³ (43 lb/ft³).



Manufactured For and
Guaranteed By:
Monsanto Company
800 N. Lindbergh Blvd.
St. Louis, Missouri 63167 USA

For Medical, Transportation,
Spill or Other Emergencies
Call Collect 24 Hours a Day
1-314-694-4000

For Product Use Information
Call: 1-877-775-8787

In Canada, contact
MONSANTO CANADA INC.
900 - One Research Road
Winnipeg, MB R3T 6E3
1-800-667-4944

For Medical, Transportation,
Spill or Other Emergencies, Call
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1-800-332-3111

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1-877-775-8787 ext 3

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Special considerations

Environmental conditions can change the flowability of JumpStart granular.

- Do not allow JumpStart granular to get wet or to dry out.
- In humid conditions, check and clean metering system regularly to ensure consistent flow.

Where to use for maximum benefit

For soils low to medium in available phosphate:

Use JumpStart granular inoculant 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 P₂O₅/ha (15–20 lb P₂O₅/ac)] with JumpStart granular inoculant.

Benefits of using JumpStart granular inoculant 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 granular inoculant 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 granular are living organisms and require specific storage conditions to ensure viability and product performance. To maintain product viability:

- Store JumpStart bags 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 bag within 24 hours after opening. Do not store opened bags of JumpStart granular.
- Use before the expiry date. The expiry date is valid only for unopened bags stored under the conditions listed above.
- Use this product only in well-ventilated areas.

Unused JumpStart granular should be disposed of in accordance with applicable Federal, state/provincial, and local requirements.

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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