

SO-FAST[®] PLUS SOYBEAN GRANULAR

SO-FAST PLUS SOYBEAN GRANULAR phosphate-solubilizing and Nitrogen-fixing inoculant soybean is a DUAL-ACTION inoculant combining the phosphate-solubilizing microorganism *Penicillium bilaiiae* with nitrogen-fixing rhizobia. Together they can create more fixed nitrogen and better access to soil and fertilizer phosphate, providing the best yield.

MINIMUM GUARANTEED ANALYSIS

ACTIVE: 1.0 x 10⁵ cfu/g *Penicillium bilaiiae*

1.0 x 10⁸ viable cfu/g *Bradyrhizobium japonicum*

INERT: Peat granules and water

Registration Number 2016154A Fertilizers Act

Warning

May form combustible dust concentrations in air.

NONPLANT FOOD INGREDIENT

Not a fertilizer substitute.

MANUFACTURED FOR AND DISTRIBUTED BY:

LOVELAND PRODUCTS CANADA INC.

PO BOX 5234 | 64137 HWY 543 E

HIGH RIVER, AB CANADA T1V 1M4

PRODUCT INQUIRIES: 1-800-328-4678

24HR EMERGENCY CONTACT: 1-800-561-8273

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

How it Works

The active ingredients in SO-FAST[®] PLUS SOYBEAN GRANULAR phosphate-solubilizing and nitrogen-fixing inoculant are the bacterium *Bradyrhizobium japonicum* and the soil fungus *Penicillium bilaiiae*. *Bradyrhizobium japonicum* forms root nodules which convert, or fix, nitrogen in the air into forms the plant can use. *Penicillium bilaiiae* grows on plant roots and makes less-available residual soil phosphate available for crop use.

Directions for Use

Shipping and stacking of SO-FAST PLUS SOYBEAN GRANULAR may cause some granules to become compacted. Loosen any compacted granules before using this product.

SO-FAST PLUS SOYBEAN 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 SO-FAST PLUS SOYBEAN GRANULAR in the same tank with fertilizers, granular pesticides, or seed. SO-FAST PLUS SOYBEAN GRANULAR can be used with pesticide treated seed. Do not leave SO-FAST PLUS SOYBEAN GRANULAR in tank or seed cart overnight. Be sure to calibrate your equipment to deliver the correct amount of SO-FAST PLUS SOYBEAN GRANULAR per

acre for your row spacing, refer to Table 1 for details. Under humid conditions, reduce the weight of SO-FAST PLUS SOYBEAN 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 SO-FAST PLUS SOYBEAN GRANULAR.

Table 1. Application rates per bag of SO-FAST PLUS SOYBEAN GRANULAR

Row Spacing	15.2 cm (6.0 in)	17.8cm (7.0 in)	20.3 cm (8.0 in)	22.9cm (9.0 in)	25.4cm (10.0 in)	30.5cm (12.0 in)	38.1cm (15.0 in)	61.0cm (24.0 in)	76.2cm (30.0 in)
Application Rates	8.0 kg/ha (7.1 lb/ac)	6.9kg/ha (6.2 lb/ac)	6.0kg/ha (5.4 lb/ac)	5.3 kg/ha (4.7lb/ac)	4.8kg/ha (4.3 lb/ac)	4.0 kg/ha (3.6 lb/ac)	3.2 kg/ha (2.9 lb/ac)	2.0 kg/ha (1.8 lb/ac)	1.6 kg/ha (1.4 lb/ac)
Area treated per 16.5kg bag	2.06 ha (5.0 ac)	2.39 ha (5.9 ac)	2.75 ha (6.8 ac)	3.11 ha (7.68 ac)	3.43 ha (8.5 ac)	4.1 ha (10.1 ac)	5.1 ha (12.7 ac)	8.25 ha (20.3 ac)	10.3 ha (25.5 ac)
Area treated per 264 kg bag	33.6 ha (81.6 ac)	38.4 ha (94.4 ac)	44.8 ha 108.8 ac	49.6 ha (136.0 ac)	54.4 ha (136.0 ac)	65.6 ha (163.2 ac)	83.2 ha (203.2 ac)	132.8 ha (323.2 ac)	164.8 ha (414.4 ac)

Special Considerations

Environmental conditions can change the flowability of SO-FAST PLUS SOYBEAN GRANULAR.

- Do not allow SO-FAST PLUS SOYBEAN 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

Higher nitrogen fixation with SO-FAST PLUS SOYBEAN GRANULAR occurs in soils that are low in available forms of nitrogen and populations of *Bradyrhizobium japonicum*.

For soils low to medium in available phosphate:

Use SO-FAST PLUS SOYBEAN GRANULAR 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 SO-FAST PLUS SOYBEAN GRANULAR.

Benefits of using SO-FAST PLUS SOYBEAN GRANULAR may be limited on:

- Soils with high nitrogen levels or with high application rates of nitrogen fertilizer;
- 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 ingredients in SO-FAST PLUS SOYBEAN GRANULAR are *Penicillium bilaiae* spores and *Bradyrhizobium japonicum* viable cells. 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 SO-FAST PLUS SOYBEAN GRANULAR are living organisms and require specific storage conditions to ensure viability and product performance. To maintain product viability:

- Store bags under cool conditions <68°F (20°C) 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 unopened bags of SO-FAST PLUS SOYBEAN GRANULAR.
- Use before the expiration date. The expiration date is valid only for unopened bags stored under the conditions listed above.
- Use this product only in well-ventilated areas.

Unused SO-FAST PLUS SOYBEAN GRANULAR should be disposed of in accordance with applicable civil statutes.

WARRANTY DISCLAIMER AND NOTICE

THE DIRECTIONS FOR USE OF THIS PRODUCT ARE BELIEVED TO BE ADEQUATE AND SHOULD BE FOLLOWED CAREFULLY. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. CROP INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT DUE TO SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OR ABSENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF LOVELAND PRODUCTS CANADA INC., THE MANUFACTURER OR SELLER. THIS PRODUCT IS FURNISHED "AS IS" BY LOVELAND PRODUCTS CANADA INC., THE MANUFACTURER OR SELLER, AND ARE SUBJECT ONLY TO THE MANUFACTURER'S WARRANTIES, IF ANY, WHICH APPEAR ON THIS LABEL. EXCEPT AS EXPRESSLY PROVIDED HEREIN, LOVELAND PRODUCTS CANADA INC., THE MANUFACTURER OR SELLER MAKES NO WARRANTIES, GUARANTEES, CONDITIONS OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THIS PRODUCT OR USE OF THIS PRODUCT, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE. EXCEPT AS EXPRESSLY STATED HEREIN,

LOVELAND PRODUCTS CANADA INC., THE MANUFACTURER OR SELLER MAKES NO WARRANTY OF RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND LOVELAND PRODUCTS CANADA INC.'S, THE MANUFACTURER'S OR SELLER'S TOTAL LIABILITY, SHALL BE LIMITED TO DAMAGES NOT EXCEEDING THE COST OF THIS PRODUCT. NO AGENT OR EMPLOYEE OF LOVELAND PRODUCTS CANADA INC. OR SELLER IS AUTHORIZED TO AMEND THE TERMS OF THIS WARRANTY DISCLAIMER OR THIS LABEL OR TO MAKE A REPRESENTATION OR RECOMMENDATION DIFFERENT FROM OR INCONSISTENT WITH THIS LABEL OR THIS PRODUCT. IN NO EVENT SHALL LOVELAND PRODUCTS CANADA INC., THE MANUFACTURER OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES (INCLUDING WITHOUT LIMITATION LOSS OF PROFITS OR REVENUES) RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES AND THE BUYER AND USER WAIVE ANY RIGHT THEY MAY HAVE TO SUCH DAMAGES.

SO-FAST is a registered trademark of Loveland Products Canada Inc.

Product of Canada. Registration number 2016154A Fertilizers Act.