



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 8, 2016

Gordon Sargent
Product Registration Manager
BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 – Update of Company Name and Address, Minor Changes to Label Language
Product Name: HiStick N/T
EPA Registration Number: 71840-2
Application Date: 19 March 2014
OPP Decision Number: 489296

Dear Mr. Sargent:

The U.S. Environmental Protection Agency (EPA) is in receipt of your application for notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Biopesticides and Pollution Prevention Division (BPPD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

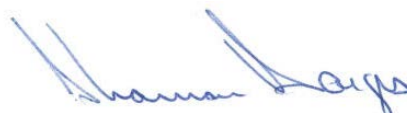
The labeling submitted with this application has been stamped “Notification” and will be placed in our records. You must submit one (1) copy of the final printed labeling with the modifications.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

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If you have any questions, please contact Nicola Steinmetz of my team by phone at (703) 347-8567 or via email at steinmetz.nicola@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Shannon Borges".

Shannon Borges, Team Leader
Microbial Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/08/2016



The Chemical Company

HiStick® N/T

A unique seed applied sterile co-inoculant, consisting of a high quality Rhizobial inoculant with a biological fungicide for use on soybean, alfalfa, beans (dry/snap), and peanuts.

ACTIVE INGREDIENT:

Bacillus subtilis, MBI 600* (not less than 2 x 10⁸ viable spores per gram)..0.001%

OTHER INGREDIENTS 99.999%

TOTAL:100.000%

* Contains a minimum of 2 x 10⁹ viable rhizobial cells/gram acting as a rhizobial inoculant and 2 x 10⁸ cfu/gram *Bacillus subtilis* acting as a biofungicide.

KEEP OUT OF REACH OF CHILDREN
CAUTION
 See Additional Precautionary Statements on Side (Back) Panel

EPA Reg. No.: 71840-2

EPA Est. No.: 71840-CAN-001

[BASF Corporation](#)
[26 Davis Drive](#)
[Research Triangle Park, NC 27709](#)

~~**Another quality biological product from:
 Becker Underwood, Inc.
 801 Dayton Avenue, P.O. Box 667
 Ames, IA 50010
 Tel. (515) 232-5907 (800) 232-5907**~~

www.beckerunderwood.com

Net Contents: _____ Batch code: _____

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. <u>You may also contact BASF Corporation for emergency medical treatment information at 1-800-832-HELP (4357).</u>	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: A long-sleeved shirt and long pants; waterproof gloves; shoes plus socks and protective eyewear. As a general precaution when exposed to concentration of living microbial products such as this, all mixers/loaders and applicators must wear a dust/mist filtering respirators meeting NIOSH standard of at least N-95, R-95, or P-95. Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables are provided, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Requirements

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE:

- Store below 77°F (24°C) away from direct sunlight, and under no circumstances allow temperatures to exceed 86°F (28°C) for long periods of time.
- Do not use inoculant that has passed its expiration date or that has not been stored properly.
- Keep inoculant and inoculated seed in a cool place out of direct sunlight and plant as soon as possible.
- If not planted within 24 hours, seed must be re-inoculated.
- This product is for use ONLY with crop(s) named on the front panel.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty package into application equipment. Then offer for recycling if available or dispose of package in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Dispose of box in the same manner. Do not reuse package or box.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any

requirements specific to your State and Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions, pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated area during the restricted-entry interval (REI) of 4 hours.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soils, or water, wear: coveralls, waterproof gloves, shoes plus socks and protective eyewear.

PRODUCT INFORMATION

HiStick N/T is a ready-to-use seed treatment. HiStick N/T has been formulated to provide high numbers of an effective nitrogen fixing bacteria and a unique isolate of the bacterium *Bacillus subtilis* (strain MBI 600) which suppresses fungal root disease organisms such as *Fusarium* and *Rhizoctonia*, and *Aspergillus*. ~~The MBI 600 bacteria colonize along the developing root system, promoting more effective nodulation by its nitrogen fixing partner, resulting in a more uniform stand with greater yield potential.~~

HiStick N/T is hermetically sealed. After opening pack, squeeze gently to disperse contents. This inoculant is crop specific. Please refer to the front panel for crop use and application rate. Higher than advised application rates will not adversely affect the crop.

HiStick N/T can be applied using any of the following methods:

SLURRY INOCULATION (soybean): Add HiStick N/T at a rate of 2.8 oz per 5.4 fl oz (160 mL) of clean, dechlorinated water and stir well in a clean container to form a lump-free slurry. Not allowing slurry to settle-out, pour inoculant onto seed and mix thoroughly to ensure all seed is evenly coated. Allow seed to dry in a shaded area before placing in seed hopper.

DAMP INOCULATION (soybean): Apply just enough dechlorinated water to slightly dampen the seed (1.5 fl oz for 50 lbs seed [approx. 2 mL/kg of seed]). Mix the dampened seed thoroughly with the inoculant so that the seeds are evenly coated.

DRY INOCULATION: Pour the correct amount of inoculant onto thin layers (approx. every 3-6 inches) of seed in drill hopper and mix thoroughly by hand using a stirring device to evenly

coat seed. For bulk seed handling systems, the product can be metered directly onto augered seed.

SEED TREATMENT COMPATIBILITY

[soybeans] HiStick N/T inoculant is compatible with seed treatment [products](#) such as Custom Seed Gloss™, Color Coat™, or Custom Color™ and pesticide treatment [products](#) based on Apron- Maxx®, Apron XL, and Maxium 4FS, carboxin, metalaxyl, captan, thiram, thiobendazole, streptomycin, Vitavax® M (when dry). ~~See our web page or contact your dealer/manufacturer for current details.~~

[dry & snap beans] HiStick N/T inoculant is compatible with seed treatment [products](#) such as Custom Seed Gloss™, Color Coat™, or Custom Color™ and [registered](#) pesticide [seed](#) treatment [products](#) based on Apron- Maxx®, carboxin, metalaxyl, captan, thiram, thiobendazole, streptomycin, Vitavax® M (when dry). ~~See our web page or contact your dealer/manufacturer for current details.~~

[peanuts] HiStick N/T inoculant is compatible with most dry seed treatment products. ~~See our web page or contact your dealer/manufacturer for current details.~~

APPLICATION

SOYBEANS: For suppression of root diseases caused by *Rhizoctonia* and *Fusarium*, and for improved rhizobial nodulation.

On Old Rotated Soybean Land:

- On pesticide treated seed or untreated seed, use at the rate of 2.8 oz per 100 lbs of seed.

On New Soybean Land:

- On seed that has not been pesticide treated (or that has been treated with Syngenta products such as Apron Maxx RTA, Apron XL, or Maxim 4FS), use at a rate of 5.6 oz per 100 lbs of seed.
- With other pesticide treated seed, use at a rate of 11.2 oz per 100 lbs of seed.

DRY & SNAP BEANS (NAVY, KIDNEY, PINTO, GREAT NORTHERN, CRANBERRY, PINK, AND BLACK TURTLE, SNAP & STRING BEANS (*PHASEOLUS VULGARIS*): For suppression of root diseases caused by *Rhizoctonia* and *Fusarium*, and for improved rhizobial nodulation.

Use at a rate of 7 oz per 100 lbs of Phaseolus seed. Can be used with or without water (if water is used, it must be dechlorinated). Open pack, squeeze to disperse contents, and pour the inoculant directly onto the seed in the planter box and mix gently.

PEANUTS: For suppression of root diseases caused by *Rhizoctonia*, *Fusarium* and *Aspergillus* and for improved rhizobial nodulation.

Use at a rate of 7 oz per 100 lbs of peanut seed. Some growers have increased yields by using higher application rates – higher rate does not adversely affect the crop. A double rate application is advisable under adverse planting conditions (hot/dry soils) and on land not previously planted to this legume.

Open pack, squeeze to disperse contents, and pour the inoculant directly onto the seed in the plants box and mix gently.

SEED LABELING

Seeds treated with this product that are then packaged or bagged for future use must contain the following labeling on the outside of the seed package or bag:

“This seed is treated with rhizobial inoculant at the manufacturer’s recommended rate.

Do not use treated seed for food, feed, or oil purposes. On soybeans, do not graze or feed livestock on forage and hay in treated areas.”

-Add appropriate information for any other chemical treatments.

NOTICE – READ CAREFULLY BEFORE USING

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as the presence of other or untested or unapproved materials, seed of low quality or low vigor or low germination, use of the product in a manner inconsistent with its labeling, misapplication of the product, or weather conditions at planting or environmental conditions during seed storage, all of which are beyond the control of BASF CORPORATION (“BASF”) or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER’S EXCLUSIVE REMEDY AND BASF’S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

WARRANTY DISCLAIMER

Becker Underwood, Inc. warrants that this product conforms to the specifications set out on this label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Becker Underwood, Inc. and the sellers of this product ~~MAKE NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, AS TO THE CONDITION, QUALITY, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OF THIS PRODUCT.~~

Inherent Risks of Use: It is impossible to eliminate all risks associated with the use of this product. Lack of performance, injury, or other unintended consequences may result because of such factors as: use of the product contrary to strict label instructions and established safe practice, abnormal climatic conditions (such as excessive rainfall, drought, and Acts of God), unfavorable soil conditions, use in combination with other products, the manner of application, storage conditions, or other factors, all of which are beyond control of Becker Underwood, Inc., and the seller. All such risks shall be assumed by the buyer.

Limitation of Remedies: To the extent permitted by applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Becker Underwood, Inc.'s election, one of the following: (1) replacement of the amount of product used; or (2) refund of the purchase price paid for the product; ~~PROVIDED THAT~~ Becker Underwood, Inc.'s provision of (1) or (2) is conditioned of its first being promptly notified of such loss or damage in writing. To the extent permitted by applicable law, Becker Underwood, Inc. and the sellers of this product ~~SHALL NOT BE LIABLE~~ to the buyer or any other party claiming by, through, or under the buyer for any other losses or damages resulting or relating to this product, including but not limited to any ~~DIRECT, INDIRECT, SPECIAL, PUNITIVE, ECONOMIC, INCIDENTAL, OR CONSEQUENTIAL DAMAGES~~ or loss of profits, whether in contract, tort, or otherwise. Becker Underwood, Inc. neither assumes, nor authorizes any person to assume for it, any other liability in connection with the sale, storage, use, or handling of this product other than as expressly set forth herein.

ACKNOWLEDGEMENT: ~~IN PURCHASING THIS PRODUCT, THE BUYER AND ALL PARTIES CLAIMING BY, THROUGH OR UNDER THE BUYER, ACKNOWLEDGE THAT AND AGREE TO THE TERMS AND CONDITIONS SET FORTH ON THIS LABEL AND FURTHER ACKNOWLEDGE THAT THEY FORM PART OF THE CONTRACT OF SALE BETWEEN THE SELLER AND BUYER OF THIS PRODUCT.~~

HiStick® N/T, Custom Seed Gloss, Color Coat, and Custom Coat are trademarks of ~~Becker Underwood~~BASF, Inc.

ApronMaxx, is a registered trademark of Syngenta Crop Protection.

Vitavax is a trademark of ~~Uniroyal~~Chemtura USA Corporation~~Chemical Company~~.