



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

September 10, 2019

Jennifer Lilly
Product Registration Manager – Biologicals
BASF Corporation
26 Davis Drive
P.O. Box 13528
Research Triangle Park, NC 27709-3528

Subject: Pesticide Registration Improvement Act (PRIA) Labeling and Formulation Amendment – To Update the Manufacturing Process, Revise the Basic Confidential Statement of Formula (CSF), Add an Alternate #1 CSF, Add Alternate Brand Names (i.e., HiStick N/T Peanut and HiStick N/T Soybean), and Make Adjustments to the Labeling, Including Those Requested by the EPA (e.g., Revise the Restricted-Entry Interval, First Aid and Precautionary Statements, and Directions for Use)
Product Name: HiStick N/T
EPA Registration Number: 71840-2
Application Date: November 12, 2018
OPP Decision Number: 546406

Dear Ms. Lilly:

The amended labeling and Confidential Statements of Formula (CSFs) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, are acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

Please note that the record for this product currently contains the following acceptable CSFs:

- Basic CSF dated 09/10/2019
- Alternate CSF #1 dated 09/10/2019

Any CSFs other than those listed above are superseded/no longer valid.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this

product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 § CFR 152.3.

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 FIFRA and is subject to review by the U.S. Environmental Protection Agency (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 statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

As discussed in the enclosed review dated September 5, 2019, you must submit confirmatory microbial contaminant testing (analysis of samples) for two additional organisms: *Escherichia coli* and *Listeria monocytogenes*. In addition, you must provide a revised manufacturing process that incorporates the QA/QC procedures/methods for this contaminant testing. The data described in this paragraph must be received by the EPA within 6 months of the date of this letter.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Cody Kendrick by phone at (703) 347-0468 or via email at kendrick.cody@epa.gov.

Sincerely,



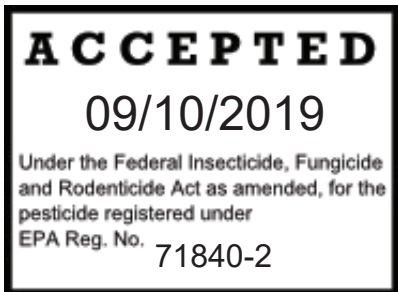
Jeannine Kausch, Product Manager 92
Microbial Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosures



We create chemistry

HiStick® N/T



[Alternate brand names: HiStick® N/T Peanut, HiStick® N/T Soybean]

A unique, sterile, on-farm seed treatment, consisting of a high quality rhizobial inoculant with a biological fungicide for use on soybeans and peanuts.

ACTIVE INGREDIENT:

Bacillus amyloliquefaciens strain MBI 600 0.402%*

OTHER INGREDIENTS 99.598%*

TOTAL..... 100.000%

* **HiStick N/T** contains a minimum of 2.0×10^8 CFU of *Bacillus amyloliquefaciens* strain MBI 600/g (biofungicide) and a minimum of 2.0×10^9 CFU of rhizobia/g (inoculant).

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

EPA Reg. No.: 71840-2

EPA Est. No.:

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

Net Weight: _____ Batch Code: _____

Not for sale or use after [date stamped will be 6 months after the date of manufacture]

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
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.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact BASF Corporation for emergency medical treatment information at 1-800-832-HELP (4357).	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. 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, long pants, waterproof gloves, shoes, socks, and protective eyewear. Mixers/loaders and applicators must wear a NIOSH-approved particulate respirator with any N, R, or P filter with NIOSH approval number prefix TC-84A; or a NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization. Follow the 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 Recommendations

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Cover or collect seeds spilled during loading.

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 or Tribe, consult the State or Tribal 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.

(continued)

AGRICULTURAL USE REQUIREMENTS *(continued)*

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 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, soil, or water) is: 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 bacterium and a unique isolate of the bacterium *Bacillus amyloliquefaciens* (i.e., strain MBI 600) that suppresses fungal root disease organisms such as *Fusarium* and *Rhizoctonia*.

HiStick N/T is hermetically sealed. After opening pack, squeeze gently to disperse contents. This product is crop specific. Please refer below for crop use and application rate.

USE RESTRICTIONS

Do not use treated seed for food or feed purposes or process for oil.

Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seeds beyond planting time. If treated seeds are not planted within 24 hours, they must be reinoculated.

This product is for use **ONLY** with crop(s) named on the front panel.

MIXING AND APPLICATION INSTRUCTIONS

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

SLURRY INOCULATION (soybeans): Add **HiStick N/T** at a rate of 2.8 oz per 5.4 fl oz of clean, dechlorinated water, and stir well in a clean container to form a lump-free slurry. Not allowing slurry to settle-out, pour slurry onto seed and mix thoroughly to ensure all seed is evenly coated. Allow seed to dry in a shaded area for at least 15 to 20 minutes before placing in seed hopper.

DAMP INOCULATION (soybeans): Apply just enough clean, dechlorinated water to slightly dampen the seed (1.5 fl oz of water per 50 lb seed [approximately 2 mL of water per 1 kg of seed]). Mix the dampened seed thoroughly with **HiStick N/T** so that the seeds are evenly coated.

DRY INOCULATION (soybeans and peanuts): Pour the correct amount of **HiStick N/T** onto thin layers (approximately 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.

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 **HiStick N/T** at the rate of 2.8 oz per 100 lb 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 **HiStick N/T** at a rate of 5.6 oz per 100 lb of seed.
- With other pesticide-treated seed, use **HiStick N/T** at a rate of 11.2 oz per 100 lb of seed.

APPLICATION (peanuts): For suppression of root diseases caused by *Rhizoctonia*, *Fusarium* and *Aspergillus*, and for improved rhizobial nodulation.

Use **HiStick N/T** at a rate of 14 oz per 100 lb of peanut seed under adverse planting conditions (hot/dry soils) and/or on land not previously planted to this legume.

For all other situations not described in the previous sentence, use **HiStick N/T** at a rate of 7 oz per 100 lb of peanut seed.

SEED TREATMENT COMPATIBILITY

[soybeans] **HiStick N/T** is compatible with seed treatment products such as Custom Seed Gloss[™], Color Coat[™], or Custom Color[™] and pesticide treatment products based on Apron Maxx[®] RTA[®], Apron XL[®], and Maxim[®] 4FS, carboxin, metalaxyl, captan, thiram, thiobendazole, streptomycin, or Vitavax[®] M (For use with Vitavax[®] M, apply after treated seed is dry).

[peanuts] **HiStick N/T** is compatible with most dry seed treatment products such as Dynasty[®] PD.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE:

- Store product or treated seed in a cool place that is below 77°F (25°C) and away from direct sunlight.
- Do not use product that has not been stored properly.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must 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 pack into application equipment. Then offer for recycling if available or dispose of pack 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.

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 weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, 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** that may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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HiStick® N/T, Custom Seed Gloss, Color Coat, and Custom Coat are trademarks of BASF Corporation.

Apron Maxx RTA and Dynasty PD are registered trademarks of Syngenta Crop Protection. Vitavax is a registered trademark of Chemtura USA Corporation.

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