



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

**OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION**

January 30, 2020

Meshea Brodie
Product Registration Manager
BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 – Update the alternate brand names
Product Name: HiStick N/T
EPA Registration Number: 71840-2
Application Date: 01/06/2020
OPP Decision Number: 559034

Dear Ms. Brodie:

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. The alternate brand names HiStick N/T For Use on Peanuts and HiStick N/T For Use on Soybeans have been added to the product’s 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 Alex Boukedes by phone at (703) 347-0305 or via email at boukedes.alexandra@epa.gov.

Sincerely,

A handwritten signature in cursive script that reads "Alexandra Boukedes".

Alexandra Boukedes, Risk Manager
Microbial Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

HiStick® N/T

[ABN: HiStick® N/T For Use on Peanuts]

[ABN: HiStick® N/T For Use on Soybeans]

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 x 10⁹ CFU of *Bacillus amyloliquefaciens* strain MBI 600/g (biofungicide) and a minimum of 2.0 x 10⁹ CFU of rhizobia/g (inoculant).

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EPA Est. No.

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See inside for complete **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific crop and/or use site restrictions.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Net Contents:

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

NOTIFICATION

71840-2

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:

01/30/2020

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 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 to 20 minutes. • Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
<p>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).</p>	

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:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- 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.

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.

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 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. This product 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*.

This product 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 this product at a rate of 2.8 ozs per 5.4 fl ozs 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 ozs of water per 50 lbs seed [approximately 2 mL of water per 1 kg of seed]). Mix the dampened seed thoroughly with this product so that the seeds are evenly coated.

DRY INOCULATION (soybeans and peanuts): Pour the correct amount of this product onto thin layers (approximately every 3 to 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 this product at the rate of 2.8 ozs 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 a rate of 5.6 ozs per 100 lbs of seed.
- With other pesticide-treated seed, use a rate of 11.2 ozs per 100 lbs of seed.

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

Use this product at a rate of 14 ozs per 100 lbs 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 this product at a rate of 7 ozs per 100 lbs 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] This product is compatible with most dry seed treatment products such as **Dynasty® PD**.

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** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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HiStick is a registered trademark of BASF.

Custom Seed Gloss, Color Coat, and Custom Coat are trademarks of BASF.

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Vitavax is a registered trademark of Chemtura USA Corporation.

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We create chemistry