



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 6, 2015

Dr. Ruhi Rezaaiyan, Ph.D.  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419

Subject: Label Amendment – New Uses: Dried Beans (except cowpeas); Bushberry  
Subgroup 13-07B; Petition #4F8231 With Rule Published 4/2/2015  
Product Name: Inspire XT  
EPA Registration Number: 100-1312  
Application Date: December 26, 2013  
Decision Number: 486687

Dear Dr. Rezaaiyan:

The amendment to your Master and Supplemental label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable under FIFRA Section 3(c)(7)(B), subject to the following conditions:

1. You must submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.
2. You are required to comply with the data requirements and due dates listed below:

**a. 850.4100 (Terrestrial plant toxicity, seedling emergence) – TEP**

This requirement was originally listed in the EPA letter dated 4/21/2010 for EPA Reg. No. 100-739 (D403560) and was required by 4/7/2011. A Tier I study was submitted (MRID 48453203) but was found Supplemental. The available Tier I study is Supplemental because there were biologically significant effects observed in dicots at the limit test concentration which is below the maximum labeled single application rate (turf; 0.26 lb ai/A). Our understanding is that 0.26 lb ai/A is the highest current single application rate but Syngenta must verify this is correct and conduct the study at the highest possible single application rate on any difenoconazole label. The current risk assessment is impacted by the lack of a NOAEC for dicots. Tier II testing is required for the dicot species that showed effects in the available study (lettuce, soybean, and sugar beet). Furthermore, a NOAEC must be established at the maximum single application rate (Tier 1 test) for the other seven test species (those showing no effects in the available study) to meet the data requirement; alternatively, Tier II testing may be conducted for those species. Syngenta recently requested a one

year extension and therefore this study is now **due one year from the date of this letter.**

**b. 850.4150 (Terrestrial plant toxicity, vegetative vigor) – TEP**

This requirement was originally listed in the EPA letter dated 4/21/2010 for EPA Reg. No. 100-739 (D403560) and was required by 4/7/2011. A Tier I study was submitted (MRID 48453204) but was found Supplemental. The available Tier I study is Supplemental because the limit test concentration is below the maximum labeled single application rate (turf; 0.26 lb ai/A). Our understanding is that 0.26 lb ai/A is the highest current single application rate but Syngenta must verify this is correct and conduct the study at the highest possible single application rate on any difenoconazole label. The current risk assessment is not impacted. To satisfy the data requirement, a NOAEC must be established for all ten test species at the maximum single application rate (Tier I test). Alternatively, Tier II testing may be conducted. Syngenta recently requested a one year extension and therefore this study is now **due one year from the date of this letter.**

**c. Chronic toxicity to benthic invertebrates (whole sediment: freshwater and estuarine/marine) – difenoconazole (TGAI)**

This freshwater invertebrate requirement was originally listed in the Agency letter dated 1/16/2008 for EPA Reg No. 100-739 and a study was submitted (MRID 47648601) but found Supplemental. There is uncertainty associated with chronic risk to benthic invertebrates given that pore water EECs are similar to water column EECs and a lack of acceptable toxicity data for benthic invertebrates. Although this sediment toxicity study (range finding with a freshwater midge) is available, the numerous deviations in the study limit its use for quantitative purposes. Data are recommended because the chronic LOC (1.0) is exceeded for aquatic invertebrates based on comparison of water column species toxicity data to pore water EECs. Sediment chronic toxicity testing with three species is required: freshwater midge, freshwater amphipod, and marine/estuarine amphipod.

Three studies are required, each tests a different species (one with a freshwater midge, one with a freshwater amphipod, and one with a marine/estuarine amphipod).

There is not a guideline number because the 850 guidelines for chronic testing are in the process of being finalized. However, in the meantime, the Agency recommends Syngenta consider the available Agency-wide guidelines for chronic testing of freshwater and estuarine/marine organisms (see below). As indicated in 40 CFR Part 158, protocols must be submitted for review prior to initiating the studies, and in enough time to meet the submission due date.

USEPA 2000. Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates. EPA 600/R-99/064

USEPA 2001. Methods for Assessing the Chronic Toxicity of Marine and Estuarine Sediment-associated Contaminants with the Amphipod *Leptocheirus plumulosus*. EPA 600/R-01/020

**The protocols for the three studies must be submitted with enough time for the Agency to review and approve them, and for the three actual studies to be submitted within two years of the date of this letter.**

- d. **850.4550 (Cyanobacteria toxicity) – difenoconazole (TGAI).** There is some uncertainty about risk to aquatic plants because an acceptable study with blue green algae (cyanobacteria) is not available. There are not currently any listed non-vascular plants so the uncertainty is for non-listed species. Blue-green algae would need to be about 6-9 times more sensitive than *Navicula pelliculosa* to exceed the LOC (non-listed species) for the proposed uses, assuming that the degradates (1,2,4-triazole, triazole acetic acid, and CGA-205375) and difenoconazole are equal in toxicity. **This study must be submitted within one year from the date of this letter.**
3. To the Supplemental label add an expiration date which is three years from the date of this letter using the following sentence on page one of the label:

This Supplemental label expires on 05/06/2018 and must not be used or distributed after this date”.

A stamped copy of your Master and Supplemental labeling are enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed master and supplemental labeling before you release the 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 the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements 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 Agency 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.

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Your release for shipment of the product constitutes acceptance of these conditions. If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). If you have any questions, please contact Karen Samek by phone at (703) 347-8825, or via email at [samek.karen@epa.gov](mailto:samek.karen@epa.gov).

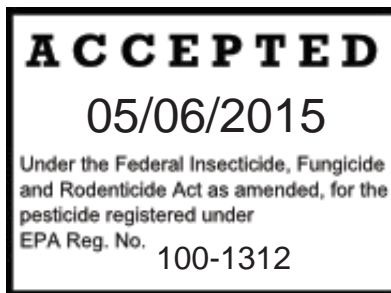
Sincerely,

A handwritten signature in black ink that reads "Tony Kish". The signature is written in a cursive style with a large, looped "T" and a long, sweeping "K".

Tony Kish, Product Manager 22  
Fungicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

[MASTER]



**GROUP 3 FUNGICIDE**

Inspire® XT

**Fungicide**

Active Ingredient:

Difenoconazole*	22.8%
Propiconazole**	22.8%
Other Ingredients***:	54.4%
Total:	100.0%

\*CAS No. 119446-68-3

\*\*CAS No. 60207-90-1

\*\*\*Contains petroleum distillates

Contains 2.08 lb ai/gal each of difenoconazole and propiconazole.

**KEEP OUT OF REACH OF CHILDREN.**

**DANGER/PELIGRO**

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 additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1312

EPA Est.

Net Contents

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give <b>any</b> liquid to the person.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
<b>NOTE TO PHYSICIAN</b>	
Contains petroleum distillates - vomiting may cause aspiration pneumonia.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b>	
For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call <b>1-800-888-8372</b>	

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## PRECAUTIONARY STATEMENTS

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### Hazards to Humans and Domestic Animals

#### DANGER/PELIGRO

Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin or on clothing. Causes skin irritation. Harmful if swallowed or absorbed through skin. Wear protective eyewear such as goggles, face shield, or safety glasses. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### Personal Protective Equipment (PPE)

Some materials that are chemical resistant to this product are listed below.

### **Mixers, loaders, applicators and all other handlers must wear:**

- Chemical-resistant gloves such as barrier laminate, butyl rubber greater than or equal to 14 mils, nitrile rubber greater than 14 mils, or Viton® greater than 14 mils
- Protective eyewear (goggles, face shield, or safety glasses)
- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading
- Chemical-resistant footwear plus socks

Discard clothing and other absorbed materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **Engineering Control Statements**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### **User Safety Recommendations**

#### **Users should:**

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

### **Environmental Hazards**

This pesticide is toxic to fish, mammals, and aquatic invertebrates. Drift and runoff may be hazardous to aquatic **estuarine/marine** organisms in water adjacent to treated area. Do not apply directly to water, areas where surface water is present, or intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

This product may contaminate water through drift or spray in wind. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this

product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's potential to reach surface water.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or regional office of the EPA.

### **Physical or Chemical Hazards**

Do not use or store near heat or open flame.



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## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must 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 because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## 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 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 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:

- Chemical-resistant gloves such as barrier laminate, butyl rubber greater than or equal to 14 mils, nitrile rubber greater than 14 mils, or Viton greater than 14 mils
- Protective eyewear (goggles, face shield, or safety glasses)
- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading
- Chemical-resistant footwear plus socks

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

**Keep unprotected persons out of treated areas until sprays have dried.**

**FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, OR ILLEGAL RESIDUES.**

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### PRODUCT INFORMATION

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Inspire XT is a broad-spectrum fungicide with systemic and curative properties recommended for the control of key diseases in sugar beets. Inspire XT may be applied as a foliar spray in alternating spray programs or in tank mixes with other crop protection products. All applications must be made according to the use directions that follow.

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### PRODUCT USE INSTRUCTIONS

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**Application:** Thorough coverage is necessary to provide good disease control. Make up no more spray solution than is needed for application. Avoid spray overlap, as crop injury may occur.

**Efficacy:** Under certain conditions conducive to extended infection periods, use another registered fungicide for additional applications if maximum amount of Inspire XT has been used. If resistant isolates to Group 3 fungicides are present, efficacy can be reduced. Under high disease pressure, it is recommended to use the highest rate and shortest interval.

**Rotational Crops:** Please see the table below for the crop rotational restrictions.

Rotational Crop	Planting Time From Last Inspire XT Application
Bean, Dried except cowpeas Berry, Bushberry Subgroup 13-07B Berry, Low Growing Subgroup 13-07G (except cranberry) Bulb vegetables Carrot Soybean Strawberry Sugar beet	0 days
Cereals (wheat, barley, triticale, oats, rye)	30 days
Cilantro Corn Corn, Sweet Garden Beet Parsley Peanut Rice	60 days
All other crops intended for food and feed	105 days

**Crop Tolerance:** Plant tolerance has been found acceptable for all crops on the label, however, not all possible tank-mix combinations have been tested under all conditions. When possible, it is recommended to test the combinations on a small portion of the crop to ensure a phytotoxic response will not occur as a result of application.

**Spray Drift Management:** To avoid spray drift, do not apply when conditions favor drift beyond the target area. The interaction of many equipment and weather related factors determine the potential for spray drift. AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER. More information on managing spray drift can be found on the Syngenta Crop Protection website under Stewardship ([http://www.syngentacropprotection-us.com/enviro/driftmanagement/index.asp?nav=drift\\_management](http://www.syngentacropprotection-us.com/enviro/driftmanagement/index.asp?nav=drift_management)).

**IPM:** Inspire XT should be integrated into an overall disease and pest management strategy (IPM) whenever the use of a fungicide is required. Cultural practices known to reduce disease development should be followed. Consult your local agricultural authorities for additional IPM strategies established for your area. Inspire XT may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

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## RESISTANCE MANAGEMENT

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Inspire XT contains two active ingredients, both in the Group 3 class fungicides. The mode of action of Inspire XT is as a demethylation inhibitor of sterol biosynthesis (DMI) which disrupts membrane synthesis by blocking demethylation. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the crop and use area. Consult your local or State agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include rotating and/or tank mixing with products having different modes of action or limiting the total number of applications per season. Syngenta Crop Protection encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label. Inspire XT should not be alternated or tank mixed with any fungicide to which resistance has already developed.

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## SPRAY EQUIPMENT

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### Nozzles

- Equip sprayers with nozzles that provide accurate and uniform application.
- Use the same size nozzles uniformly spaced across the boom.
- Calibrate sprayer before use.
- Use screens to protect the pump and to prevent nozzles from clogging.
- On suction side of pump use screens that are *16-mesh or coarser*.
- Do not place a screen in the recirculation line.
- Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles.
- Check nozzle manufacturer's recommendations.

### Pump

- Use a pump with capacity to:
  - (1) Maintain sufficient pressure at the nozzle tip to give the required flow rate and droplet size to provide acceptable coverage of the target crop.
  - (2) Provide sufficient agitation in tank to keep mixture in suspension - this requires recirculation of 10% of tank volume per minute.
- Use a jet agitator or liquid sparge tube for agitation.
- Do not air sparge.

For more information on spray equipment and calibration, consult sprayer manufacturers and state recommendations. For specific local directions and spray schedules, consult the current state agricultural recommendations.

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## MIXING INSTRUCTIONS

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- Prepare no more spray mixture than is required for the immediate operation.

- Thoroughly clean spray equipment before using this product.
- Agitate the spray solution before and during application.
- Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already treated area.

**Inspire XT Alone (no tank mix):**

- Add  $\frac{1}{2}$ - $\frac{2}{3}$  of the required amount of water to the spray or mixing tank.
- With the agitator running, add Inspire XT to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after Inspire XT has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

**Inspire XT + Tank Mixtures:** Inspire XT is usually compatible with tank-mix partners. To determine the physical compatibility of Inspire XT with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

**Mixing in the Spray Tank**

- Add  $\frac{1}{2}$ - $\frac{2}{3}$  of the required amount of water to the spray or mixing tank.
- With the agitator running, add the tank-mix partner(s) into the tank in the same order as described above.
- Allow the material to completely dissolve and disperse into the mix water. Continue agitation while adding the remainder of the water and Inspire XT to the spray tank.
- Allow Inspire XT to completely disperse.
- Spray the mixture with the agitator running.
- Observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank-mix product label.
- Label dosage rate must not be exceeded, and the most restrictive label precautions and limitations must be followed.
- This product must not be mixed with any product which prohibits such mixing.

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**APPLICATION PROCEDURES**

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**Ground Application:**

- Apply in a minimum of 15 gal of water per acre, unless specified otherwise.

**Aerial Application:**

- Use only on crops where aerial applications are indicated.
- Apply in a minimum of 5 gal of water per acre, unless specified otherwise.

- Do not apply under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur.
- Do not apply directly to humans or animals.

### **Application Through Irrigation Systems (Chemigation)**

- Use only on crops for which chemigation is specified on this label.
- Apply this product only through center pivot, solid set, hand move, or moving wheel irrigation systems. Do not apply this product through any other type of irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- Apply in 0.125-0.25 inches/A of water. Excessive water may reduce efficacy.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**Note:** Do not inject Inspire XT at full strength or deterioration of valves and seals may occur. Use a dilution ratio of at least 10 parts water to 1 part Inspire. Inspire is corrosive to many seal materials. Leather seals are best. EPDM or silicone rubber seals can be used, but should be replaced once a year. Do not use Viton, Buna-N, Neoprene, or PVC seals.

### **Operating Instructions**

1. The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.



5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended.

### **Center Pivot Irrigation Equipment**

**Notes:** (1) Use only with drive systems which provide uniform water distribution. (2) Do not use end guns when chemigating Inspire XT through center pivot systems because of non-uniform application.

- Determine the size of the area to be treated.
- Determine the time required to apply  $\frac{1}{8}$ - $\frac{1}{2}$  inch of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. When applying Inspire XT through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution. Run the system at 80-95% of the manufacturer's rated capacity.
- Using water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of Inspire XT required to treat the area covered by the irrigation system.
- Add the required amount of Inspire XT and sufficient water to meet the injection time requirements to the solution tank.
- Make sure the system is fully charged with water before starting injection of the Inspire XT solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- Maintain constant solution tank agitation during the injection period.
- Continue to operate the system until the Inspire XT solution has cleared the sprinkler head.

### **Solid Set, Hand Move, and Moving Wheel Irrigation Equipment**

- Determine the acreage covered by the sprinklers.
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20 to 30-minute interval. When applying Inspire XT through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of Inspire XT required to treat the area covered by the irrigation system.



- Add the required amount of Inspire XT into the same quantity of water used to calibrate the injection period.
- Operate the system at the same pressure and time interval established during the calibration.
- Stop injection equipment after treatment is completed. Continue to operate the system until the Inspire XT solution has cleared the last sprinkler head.

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## **SPECIFIC INSTRUCTIONS FOR PUBLIC WATER SYSTEMS**

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1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

## SPECIFIC USE DIRECTIONS

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
Almonds	Alternaria leafspot ( <i>A. alternata</i> ) Anthracnose ( <i>Colletotrichum acutatum</i> ) Blossom Blight Brown rot ( <i>Monilinia</i> spp.) Brown rot/hull rot ( <i>Monilinia</i> spp.) Powdery mildew ( <i>Podosphaera tridactyla</i> , <i>Sphaerotheca pannosa</i> ) Scab ( <i>Venturia carpophilia</i> ) Shot hole ( <i>Wilsonmyces carpophilus</i> )	5 - 7	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire XT on a 14- to 21-day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.</p> <p>If monitoring or history indicates the presence of Alternaria, apply 7 fl oz/A of Inspire XT in the late spring (mid April to beginning of May) and then repeat the treatment 2-3 weeks later.</p> <p>For blossom blight, begin applications at early bloom and continue through petal fall. Minimum retreatment interval is 14 days.</p> <p>For anthracnose, begin applications at bud break on a 14-day interval.</p> <p><i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i></p> <p><i>[Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.]</i></p> <p><i>[Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.]</i></p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by either ground or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 10 gal/A of water is recommended.</p>			

### Specific Use Restrictions:

- 1) Do not use an adjuvant.
- 2) Do not apply more than 28 fl oz/A of Inspire XT per crop.
- 3) Do not apply more than 0.46 lb ai/A per crop of difenoconazole-containing products.
- 4) Do not apply more than 0.9 lb ai/A per crop of propiconazole-containing products.
- 5) Do not graze livestock in treated area or cut treated cover crop for feed.
- 6) Do not apply within 60 days of harvest (60-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
<p><b>Bean, Dried except cowpeas</b></p> <p>To be grown for bean, dried seed only.</p> <p>Cicer arietinum Phaseolus Vigna Lupinus</p> <p>See complete list below</p> <p>See specific Directions for soybeans</p>	<p>Anthranose (<i>Colletotrichum lindemuthianum</i>)</p> <p>Alternaria leafspot (<i>A. alternata</i>)</p> <p>Alternaria blight (<i>Alternaria</i> spp.)</p> <p>Ascochyta leaf and pod spot (<i>Ascochyta</i> spp.)</p> <p>Ascochyta blight (<i>Mycosphaerella pinodes</i>)</p> <p>Cercospora leafspot (<i>Cercospora cruenta</i>)</p> <p>Rust, bean (<i>Uromyces appendiculatus</i>)</p> <p>Web blight (<i>Rhizoctonia solani</i>)</p>	<p>6 - 7</p>	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire XT on a 14-day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.</p> <p>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by ground, chemigation, or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 10 gal/A of water is recommended. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.</p>			
<p><b>Complete List of Dry Bean:</b> Dried cultivars of bean (<i>Lupinus</i>); bean (Phaseolus) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, tepary bean); bean (Vigna) (includes adzuki bean, blackeyed pea, catjang, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean; chickpea; lablab bean.</p>			
<p><b>Specific Use Restrictions:</b></p> <ol style="list-style-type: none"> <li>1) Do not apply more than 21 fl oz/A of Inspire XT per year.</li> <li>2) Do not apply more than 0.46 lb ai/A/year of a difenoconazole-containing product.</li> <li>3) Do not apply more than 0.34 lb ai/A/year of a propiconazole-containing product.</li> <li>4) Do not apply Inspire XT within 14 days of harvest (14-day PHI).</li> </ol>			

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
<b>Berry, Bushberry Subgroup 13-07B</b>  <b>Blueberry</b>	Powdery mildew ( <i>Microsphaera alni</i> ) Anthracnose ( <i>Colletotrichum</i> spp.) Septoria leaf spot ( <i>S. albopunctata</i> ) Alternaria leaf spot ( <i>A. tenuissima</i> ) Leaf rust ( <i>Pucciniastrum vaccinii</i> ) Monilinia blight and Mummyberry blight ( <i>M. vaccinii- corymbosis</i> )	6-7	Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire XT on a 7- to 14-day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.  <i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i>  <i>[Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.]</i>  <i>[Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.]</i>
<b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by ground or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 10 gal/A of water is recommended.			

**Complete List of Bushberry Subgroup:** Aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; Chilean guava; cranberry, highbush; currant, black; currant, red; elderberry; European barberry; gooseberry; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); lingonberry; native currant; salal; sea buckthorn; cultivars, varieties, and/or hybrids of these.

**Specific Use Restrictions:**

- 1) Do not apply more than 28.3 fl oz/A of Inspire XT per crop per year.
- 2) Do not apply more than 0.46 lb ai/A/year of a difenoconazole-containing product.
- 3) Do not apply more than 0.84 lb ai/A/year of a propiconazole-containing product.
- 4) Do not apply Inspire XT within 30 days of harvest (30-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
<p><b>Berry, Low Growing Subgroup 13-07G (except Cranberry)</b></p> <p>Including all cultivars and/or hybrids of these.</p> <p>See complete list of low growing berries below.</p>	<p>Anthracnose (<i>Colletotrichum acutatum</i>)</p> <p>Leaf spot (<i>Cercospora fragariae</i>)</p> <p>Powdery mildew (<i>Sphaerotheca macularis</i>)</p> <p>Leaf rust (<i>Phragmidium potentillae</i>)</p>	<p>5 - 7</p>	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire XT on a 7- to 14-day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.</p> <p><i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i></p> <p><i>[Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.]</i></p> <p><i>[Optional language is label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.]</i></p> <p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by ground or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 10 gal/A of water is recommended.</p>

**Complete List of Low Growing Berries:** Bearberry; Bilberry; Blueberry, lowbush; Cloudberry; Lingonberry; Muntries; Partridgeberry; Strawberry; cultivars, varieties, and/or hybrids of these.

**Specific Use Restrictions:**

- 1) Do not apply more than 28 fl oz of Inspire XT per acre per season.
- 2) Do not apply more than 0.46 lb ai/A of difenoconazole-containing product per crop per season.
- 3) Do not apply more than 0.45 lb ai/A of propiconazole-containing products per crop per season.
- 4) Inspire XT may be applied within 0 days of harvest (0-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
<b>Bulb Vegetables</b>  Onion, bulb Garlic Shallot  Onion, green Leek Welch onion tops	Cercospora leafspot <i>(C. duddiae)</i> Leaf blotch <i>(Cladosporium allii-cepae)</i> Powdery Mildew <i>(Leveillula taurica)</i> Purple blotch <i>(Alternaria porri)</i> Stemphyllium leaf blight <i>(S. vesicarium)</i> Cladosporium leaf blotch <i>(C. allii)</i> Rust <i>(Puccinia allii)</i>  Suppression of Botrytis leaf blight <i>(B. squamosa)</i>	5 - 7	Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire XT on a 7- to 10-day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.  <i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i>  <i>[Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.]</i>  <i>[Optional language is label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.]</i>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by either ground, chemigation, or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.</p>			

**Bulb onion subgroup 3-07A: Daylily, bulb; fritillaria, bulb; garlic, bulb; garlic, great-headed, bulb; garlic, serpent, bulb; lily, bulb; onion, bulb; onion, Chinese, bulb; onion, pearl; onion, potato, bulb; shallot, bulb; cultivars, varieties, and/or hybrids of these.**

**Green onion subgroup 3-07B: Chive, fresh leaves; chive, Chinese, fresh leaves; elegans hosta; fritillaria, leaves; kurrat; lady's leek; leek; leek, wild; onion, Beltsville bunching; onion, fresh; onion, green; onion, macrostem; onion, tree, tops; onion, Welsh, tops; shallot, fresh leaves; cultivars, varieties, and/or hybrids of these.**

**Specific Use Restrictions:**

- 1) For green onions, do not apply more than 21 fl oz/A of Inspire XT per season.
- 2) For green onions, do not apply more than 0.34 lb ai/A of difenoconazole-containing products.
- 3) For dry bulb onions, do not apply more than 28 fl oz/A of Inspire XT per season.
- 4) For dry bulb onions, do not apply more than 0.46 lb ai/A per season of difenoconazole-containing products.
- 5) For all Bulb crop group, do not apply more than 0.45 lb ai/A per season of propiconazole-containing products.
- 6) Do not apply within 14 days of harvest for dry bulb type (14-day PHI).
- 7) Do not apply within 7 days of harvest for green onions (7-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
Carrots	Cercospora leaf spot ( <i>Cercospora carotae</i> ) Alternaria leaf blight ( <i>Alternaria dauci</i> ) Powdery mildew ( <i>Erysiphe</i> spp.)	5 - 7	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire XT on a 7- to 10-day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.</p> <p><i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i></p> <p><i>[Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.]</i></p> <p><i>[Optional language is label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.]</i></p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by either ground or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 10 gal/A of water is recommended.</p>			

**Specific Use Restrictions:**

- 1) Do not apply more than 28 fl oz of Inspire XT per acre per season.
- 2) Do not apply more than 0.46 lb ai/A of difenoconazole-containing product per crop per season.
- 3) Do not apply more than 0.45 lb ai/A of propiconazole-containing products per crop per season.
- 4) Do not apply within 14 days of harvest.

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
<b>Filberts</b> (Hazelnuts)	Eastern Filbert Blight ( <i>Anisogramma anomala</i> )	5 - 7	<p>Begin applications when green leaf tissue becomes visible and continue on a 14- to 21-day interval. Make no more than 2 sequential applications before alternating to another fungicide with a different mode of action.</p> <p><i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i></p> <p><i>[Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.]</i></p> <p><i>[Optional language is label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.]</i></p> <p><b>NOTE:</b> Under certain conditions, Inspire XT may cause smaller and/or greener leaves. Yields of filberts displaying these characteristics have not been reduced due to Inspire XT treatments.</p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by either ground, or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 10 gal/A of water is recommended.</p>			

**Specific Use Restrictions:**

- 1) Do not use an adjuvant.
- 2) Do not apply more than 28 fl oz/A of Inspire XT per crop.
- 3) Do not apply more than 0.46 lb ai/A of difenoconazole-containing products per crop.
- 4) Do not apply more than 0.9 lb ai/A of propiconazole-containing products per crop.
- 5) Do not graze livestock in treated areas or cut treated cover crop for feed.
- 6) Do not apply within 60 days of harvest (60-day PHI).



Crop	Target Diseases	Use Rate fl oz product/A	Remarks
Pecans	Pecan Scab <i>(Cladosporium caryigenum)</i> Downy Spot <i>(Mycosphaerella caryigena)</i> Liver Spot <i>(Gnomonia caryae)</i> Vein Spot <i>(Gnomonia nerviseda)</i> Zonate Leaf Spot <i>(Grovesinia pyramidalis)</i> Powdery Mildew <i>(Microsphaera penicillata)</i>	5 - 7	Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire XT on a 14-day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.  <i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i>

**Application:** For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by either ground or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 10 gal/A of water is recommended.

**Specific Use Restrictions:**

- 1) Do not use an adjuvant.
- 2) Do not apply more than 28 fl oz/A of Inspire XT per crop.
- 3) Do not apply more than 0.46 lb ai/A of difenoconazole-containing products per crop.
- 4) Do not apply more than 0.9 lb ai/A of propiconazole-containing products per crop.
- 5) Do not graze livestock in treated areas or cut treated cover crop for feed.
- 6) Do not apply after shuck split.

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
Pistachios	Panicle and Shoot Blight ( <i>Botryosphaeria dothidea</i> ) Alternaria late blight ( <i>Alternaria</i> spp.) Septoria leaf spot ( <i>S. pistaciarum</i> )	5 - 7	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire XT on a 14- to 21-day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.</p> <p>For <i>Botryosphaeria</i>, begin applications when green leaf tissue becomes visible and continue on a 14-21 day interval. Make no more than 2 sequential applications before alternating to another fungicide with a different mode of action.</p> <p><i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i></p> <p><i>[Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.]</i></p> <p><i>[Optional language is label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.]</i></p> <p><b>NOTE:</b> Under certain conditions, Inspire XT may cause smaller and/or greener leaves. Yields of pistachios displaying these characteristics have not been reduced due to Inspire XT treatments.</p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by either ground or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 10 gal/A of water is recommended.</p>			

**Specific Use Restrictions:**

- 1) Do not use an adjuvant.
- 2) Do not apply more than 28 fl oz/A of Inspire XT per crop.
- 3) Do not apply more than 0.46 lb ai/A of difenoconazole-containing products per crop.
- 4) Do not apply more than 0.9 lb ai/A of propiconazole-containing products per crop.
- 5) Do not graze livestock in treated areas or cut treated cover crop for feed.
- 6) Do not apply within 60 days of harvest (60-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
Soybean	Anthracnose ( <i>Colletotrichum truncatum</i> ) Alternaria leaf spot ( <i>Alternaria</i> spp.) Brown spot ( <i>Septoria glycines</i> ) Cercospora blight and leaf spot ( <i>C. kikuchii</i> ) Frogeye leaf spot ( <i>Cercospora sojina</i> ) Pod and stem blight ( <i>Diaporthe phaseolorum</i> ) Powdery mildew ( <i>Microsphaera diffusa</i> ) Soybean rust ( <i>Phakopsora pachyrhizi</i> )	5 - 7	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire XT on a 14- to 21-day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.</p> <p><i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i></p> <p><i>[Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.]</i></p> <p><i>[Optional language is label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.]</i></p> <p>Soybean Rust: Apply 7 fl oz at first indication that disease is in the area. For best control, preventive applications work best. Repeat on a 14-day interval. Use higher rate when disease is present in field and incidence is less than 2% (2 plants in 100 are infected). If incidence is greater than this or if disease is in the mid-canopy, control will not be acceptable. Scouting for the disease and/or being aware of the proximity of the disease via monitoring systems will aid in the proper timing to maximize the effectiveness of the fungicide applications.</p> <p>On certain varieties, Inspire XT may cause crinkled, smaller and/or greener leaves. Yields of beans displaying these symptoms have not been reduced.</p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by either ground or aerial application. May be applied in a minimum water volume of 2 gpa by air. Addition of an oil-based additive is recommended for improved coverage and penetration when applying by air.</p>			

**Specific Use Restrictions:**

- 1) Do not apply more than 13.5 fl oz of Inspire XT per acre per season.
- 2) Do not apply more than 0.22 lb ai/A of difenoconazole-containing product per crop per season.
- 3) Do not apply more than 0.34 lb ai/A of propiconazole-containing products per crop per season.
- 4) Inspire XT may be applied up to Stage R6 or within 14 days of harvest, whichever is longer.
- 5) Do not feed soybean hay, forage and silage.

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
<b>Stone Fruit</b> Apricots Cherries, Sweet Cherries, Tart Nectarines Peaches Plums Plumcot Prunes  And cultivars and/or hybrids of these.	Brown rot blossom blight and Fruit rot <i>Monilinia</i> <i>fructicola</i> , <i>M. laxa</i>  Scab ( <i>Cladosporium</i> <i>carpophilum</i> ) Alternaria spot and Fruit rot ( <i>A. alternata</i> ) Anthracnose ( <i>Colletotrichum</i> spp.) Leaf rust ( <i>Tranzschelia</i> <i>discolor</i> ) Powdery mildew ( <i>Sphaerotheca</i> <i>pannosa</i> , <i>Podosphaera</i> <i>clandestina</i> ) Shot hole ( <i>Wilsonomyces</i> <i>carpophilus</i> )	5 - 7	<p>For brown rot blossom blight, begin applications at early bloom and continue through petal fall. For brown rot on fruit, apply as needed a maximum of two sprays during the pre-harvest period up to the day of harvest (minimum of a 7-day retreatment interval). If high inoculum and severe disease conditions persist, apply a registered non-Group 3 fungicide.</p> <p>For all other diseases, follow the Brown Rot Blossom Blight schedule. Make additional applications on a 10- to 14-day interval from the end of petal fall to harvest.</p> <p><i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i></p> <p><i>[Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.]</i></p> <p><i>[Optional language is label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.]</i></p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by either ground or aerial application. Stone fruit diseases are most effectively controlled by ground applications. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 10 gal/A of water is recommended.</p> <p><b>Precaution:</b> Applications of propiconazole during bloom to Stanley plums have occasionally caused fruit to be less oval in shape and smaller in size at harvest. To avoid this, do not apply Inspire XT to Stanley plums earlier than 21 days prior to harvest.</p>			

**Specific Use Restrictions:**

- 1) Do not apply more than 28 fl oz of Inspire XT per acre per season.
- 2) Do not apply more than 0.46 lb ai/A of difenoconazole-containing product per crop per season.
- 3) Do not apply more than 0.56 lb ai/A of propiconazole-containing products per crop per season.
- 4) Inspire XT may be applied on the day of harvest (0-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
Sugar Beets	Cercospora leafspot ( <i>C. beticola</i> ) Powdery mildew ( <i>Erysiphe polygoni</i> )	5 - 7	<p>Begin applications preventively or on a forecast system. For powdery mildew, apply at first sign of disease.</p> <p>Apply Inspire XT on a 10- to 21-day schedule. Make only one Inspire XT spray then alternate to a non-triazole fungicide (non-Group 3) that is registered on sugar beets for these diseases.</p> <p><i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i></p> <p><i>[Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.]</i></p> <p><i>[Optional language is label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.]</i></p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by either ground, chemigation, or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 5 gal/A of water is recommended. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.</p>			

**Specific Use Restrictions:**

- 1) Do not apply more than 21 fl oz/A of Inspire XT per crop per season.
- 2) Do not apply within 21 days of harvest.
- 3) Do not apply more than 0.34 lb ai/A of propiconazole-containing products per season.
- 4) Do not apply more than 0.46 lb ai/A of difenoconazole-containing products per season.

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
<b>Tree Nuts</b>  Beechnut Brazil Nut Butternut Cashew Chestnut Chinquapin Hickory Macadamia Walnut, black Walnut, English  (See specific Directions for Almonds Filberts Pecans Pistachios)	Foliar Diseases	5 - 7 (0.114)	Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire XT on a 14- to 21-day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.  <i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i>  <i>[Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.]</i>  <i>[Optional language is label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.]</i>
<b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by either ground or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 10 gal/A of water is recommended.			

**Specific Use Restrictions:**

- 1) Do not use an adjuvant.
- 2) Do not apply more than 28 fl oz/A of Inspire XT per crop.
- 3) Do not apply more than 0.46 lb ai/A per crop of difenoconazole-containing products.
- 4) Do not apply more than 0.9 lb ai/A per crop of propiconazole-containing products.
- 5) Do not graze livestock in treated areas or cut treated cover crop for feed.
- 6) Do not apply within 60 days of harvest (60-day PHI).

Fl oz product/A	Lb ai/A difenoconazole	Lb ai/A propiconazole
5	0.08	0.08
6	0.098	0.098
7	0.114	0.114

## **STORAGE AND DISPOSAL**

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

### **Pesticide Storage**

Store in the original container in cool place.

### **Pesticide Disposal**

Pesticide wastes may be toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative of the nearest EPA Regional Office for guidance.

### **Container Handling [less than or equal to 5 gallons]**

Non-refillable container. Do not reuse or refill this container.

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling [greater than 5 gallons – mini-bulk]**

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling [greater than 5 gallons - bulk]**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.**

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the SYNGENTA Logo and the PURPOSE ICON  
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For non-emergency (e.g. current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

Inspire XT 1312 MAS TP 0215 AMEND-D Clean – em – 5/4/15  
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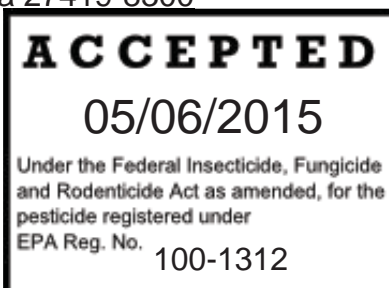


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## SUPPLEMENTAL LABELING

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Syngenta Crop Protection, LLC  
P. O. Box 18300  
Greensboro, North Carolina 27419-8300  
SCP



**GROUP 3 FUNGICIDE**

**Inspire® XT**

**Fungicide**

**This supplemental label expires on XX/XX/XXXX and must not be used or distributed after this date.**

Active Ingredient:

Difenoconazole*	22.8%
Propiconazole**	22.8%
Other Ingredients***:	54.4%
Total:	100.0%

\*CAS No. 119446-68-3

\*\*CAS No. 60207-90-1

\*\*\*Contains petroleum distillates

Contains 2.08 lb ai/gal each of difenoconazole and propiconazole.

**KEEP OUT OF REACH OF CHILDREN.**

## **DANGER/PELIGRO**

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.)

**EPA Reg. No. 100-1312**

All applicable directions, restrictions and precautions on the EPA-registered label are to be followed. Before using Inspire XT Fungicide as permitted according to this Supplemental Labeling, read and follow all applicable directions, restrictions, and precautions on the EPA-registered label on or attached to the pesticide product container. This Supplemental Labeling contains revised use instructions and/or restrictions that may be different from those that appear on the container label. This Supplemental Labeling must be in the possession of the user at the time of pesticide application. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**syngenta**

## DIRECTIONS FOR USE

**Rotational Crops:** Please see the table below for the crop rotational restrictions.

<b>Rotational Crop</b>	<b>Planting Time From Last Inspire XT Application</b>
Bean, Dried except cowpeas Berry, Bushberry Subgroup 13-07B Berry, Low Growing Subgroup 13-07G (except cranberry) Bulb vegetables Carrot Soybean Strawberry Sugar beet	0 days
Cereals (wheat, barley, triticale, oats, rye)	30 days
Cilantro Corn Corn, Sweet Garden Beet Parsley Peanut Rice	60 days
All other crops intended for food and feed	105 days

## SPECIFIC DIRECTIONS FOR USE

Crop	Target Diseases	Use Rate fl oz product/A	Remarks
<p><b>Bean, Dried except cowpeas</b></p> <p>To be grown for bean, dried seed only.</p> <p>Cicer arietinum Phaseolus Vigna Lupinus</p> <p>See complete list below</p> <p>See complete directions for use for soybeans on EPA-registered label</p>	<p>Anthranose (<i>Colletotrichum lindemuthianum</i>) Alternaria leafspot (<i>A. alternata</i>) Alternaria blight (<i>Alternaria</i> spp.) Ascochyta leaf and pod spot (<i>Ascochyta</i> spp.) Ascochyta blight (<i>Mycosphaerella pinodes</i>) Cercospora leafspot (<i>Cercospora cruenta</i>) Rust, bean (<i>Uromyces appendiculatus</i>) Web blight (<i>Rhizoctonia solani</i>)</p>	<p>6 - 7</p>	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire XT on a 14-day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.</p> <p>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by ground, chemigation, or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 10 gal/A of water is recommended. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.</p>			
<p><b>Complete List of Dry Bean:</b> Dried cultivars of bean (<i>Lupinus</i>); bean (Phaseolus) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, tepary bean); bean (Vigna) (includes adzuki bean, blackeyed pea, catjang, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean; chickpea; lablab bean.</p>			
<p><b>Specific Use Restrictions:</b></p> <ol style="list-style-type: none"> <li>1) Do not apply more than 21 fl oz/A of Inspire XT per year.</li> <li>2) Do not apply more than 0.46 lb ai/A/year of a difenoconazole-containing product.</li> <li>3) Do not apply more than 0.34 lb ai/A/year of a propiconazole-containing product.</li> <li>4) Do not apply Inspire XT within 14 days of harvest (14-day PHI).</li> </ol>			

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
<b>Berry, Bushberry Subgroup 13-07B</b>  <b>Blueberry</b>	Powdery mildew ( <i>Microsphaera alni</i> ) Anthracnose ( <i>Colletotrichum</i> spp.) Septoria leaf spot ( <i>S. albopunctata</i> ) Alternaria leaf spot ( <i>A. tenuissima</i> ) Leaf rust ( <i>Pucciniastrum vaccinii</i> ) Monilinia blight and Mummyberry blight ( <i>M. vaccinii- corymbosis</i> )	6-7	Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire XT on a 7- to 14-day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.  <i>[Optional language if label has a rate range: If disease pressure is high, use the highest rate.]</i>  <i>[Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.]</i>  <i>[Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.]</i>
<b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire XT can be applied by ground or aerial application. A minimum of 15 gal/A of water for ground applications is recommended. For aerial applications a minimum of 10 gal/A of water is recommended.			

**Complete List of Bushberry Subgroup:** Aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; Chilean guava; cranberry, highbush; currant, black; currant, red; elderberry; European barberry; gooseberry; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); lingonberry; native currant; salal; sea buckthorn; cultivars, varieties, and/or hybrids of these.

**Specific Use Restrictions:**

- 1) Do not apply more than 28.3 fl oz/A of Inspire XT per crop per year.
- 2) Do not apply more than 0.46 lb ai/A/year of a difenoconazole-containing product.
- 3) Do not apply more than 0.84 lb ai/A/year of a propiconazole-containing product.
- 4) Do not apply Inspire XT within 30 days of harvest (30-day PHI).

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Inspire XT 1312 MAS TP-SUP 0215-C-Clean – em – 4/29/15  
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