

100-1262

06/22/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

JUN 22 2011

Ruhi Rezaaiyan  
Syngenta Crop Protection, Inc.  
P.O. Box 18300  
Greensboro, NC 27419-8300

SUBJECT: Label Amendment  
Inspire  
EPA Reg. No. 100-1262  
Decision: 426120  
Your Submission Dated 12/18/2009 and revised label resubmissions

Dear Ms. Rezaaiyan:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as amended, to add new uses for carrot, chickpea, soybean, stone fruit, and strawberry, is acceptable provided that you:

Make the following changes to the label.

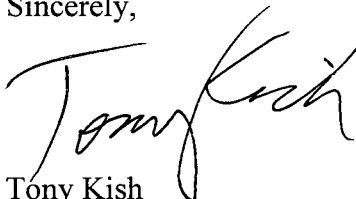
- a. The listed 7-10 day minimum retreatment interval for chickpeas is not supported by the residue data. Labels for chickpea uses must be revised to specify a minimum retreatment interval of 14 days.
- b. Turnip greens can be added to the list of brassica leafy vegetables.
- c. On page 27, change the pome fruit PHI from "72" to "14" days because the 1/26/11 approval of the cyprodinil supplemental label (100-828) reduced the pome fruit PHI from 72 to zero days and this leaves the difenoconazole PHI as the remaining PHI.
- d. The proposed 0.46 lb ai/A maximum seasonal application rate for soybeans is not supported by the residue data. Labels for soybean use must be revised to specify a maximum seasonal application rate of 0.22 lb ai/A. Therefore on page 29, change #1 in the "Specific Use Restrictions" to "Do not apply more than 13.5 fl.oz./A of Inspire per crop (0.22 lb. ai/A per season)".

As a condition of approval the following data must be submitted by 6/15/2013:

1. Additional storage stability data (860.1380) for the triazole metabolites in livestock commodities are required. Supporting storage stability data for residues of 1,2,4-triazole (1,2,4-T) are required to support the storage conditions (frozen) and intervals (up to 10 months) of livestock commodity samples collected for the cattle and poultry feeding studies that were evaluated.
2. Additional soybean field trials (860.1500) conducted with the SC formulation at the maximum proposed use rate are required. These data may be field trials conducted with a 25% reduction in number or in the form of limited side-by-side trials (conducted at exaggerated rates) to compare residues resulting from the use of an EC formulation with that of the SC formulation.
3. Additional EC and EW bridging data are required. As per the ChemSAC meeting on 1/27/2010, additional side-by-side field trials on grapes are required comparing difenoconazole residues resulting from applications of the EC and EW formulations. This should provide a more complete and robust dataset to serve as a surrogate for potential residual differences in/on the other new fruit and vegetables at issue. HED recommends three side-by-side trials on grapes comparing the EC and EW formulations using ground equipment conducted at the maximum use rate on grapes (5 applications at 0.12 lb ai/A/application, with a 6-day RTI), or at a slightly exaggerated rate (up to 1.25x or 0.15 lb ai/A/application), and collecting 2-4 samples at several intervals between 0-day and 21-days after the last application.
4. Estuarine/marine invertebrate life cycle study (850.1350) - prior study did not establish a definitive NOAEC.
5. Avian acute oral study (850.2100) for the difenoconazole degradates CGA-71019 and CGA-142856.
6. Conditional data requested in the HED risk assessment for these new uses which has been submitted, or which will be submitted under previous risk assessments/due dates must be found acceptable (ie. storage stability on crop matrices and processed commodities, confined rotational crop data reflecting phenyl-ring labeling, immunotoxicity, etc.).

Submit one copy of your final printed labeling before you release the product for shipment. If you have any questions regarding this correspondence, contact Rose Kearns of my staff by phone at 703-305-5611 or via email at [kearns.rosemary@epa.gov](mailto:kearns.rosemary@epa.gov) or myself at 703-308-9443 or via email at [kish.tony@epa.gov](mailto:kish.tony@epa.gov).

Sincerely,



Tony Kish  
Product Manager (22)  
Fungicide Branch  
Registration Division (7505P)

Enclosure

[MASTER LABEL]

GROUP 3 FUNGICIDE

Inspire®

Fungicide

Active Ingredient:	
Difenoconazole*:	23.2%
Other Ingredients**:	76.8%
Total:	100.0%

\*CAS No. 119446-68-3

\*\*Contains petroleum distillates

Contains 2.08 lbs. ai/gal. of difenoconazole

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

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. 100-1262

EPA Est.

Product of

SCP 1262A-

Net Contents

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
JUN 22 2011  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
100-1262

<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 swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</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 by mouth to an unconscious person.</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 inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</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>	

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**WARNING/AVISO**

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if swallowed. Avoid contact with skin, eyes, or clothing.

**Personal Protective Equipment (PPE)**

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category F or G on an EPA chemical-resistant category selection chart.

**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
- Long-sleeved shirt and long pants
- Socks and shoes

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 hands 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**

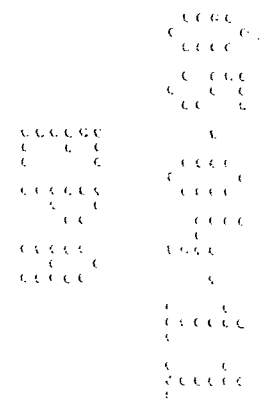
This pesticide is toxic to fish, mammals, and aquatic invertebrates. Drift and runoff may be hazardous to aquatic estuarine/marine organisms in water adjacent to treated area. Do not apply directly to water, areas where surface water is present, or intertidal areas below the mean high water mark. Do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



**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**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, Inc. 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
- Coveralls
- Socks and shoes

### 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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### GENERAL INFORMATION

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Inspire is a broad spectrum fungicide with systemic and curative properties recommended for the control of many important plant diseases. Inspire 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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### GENERAL 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 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 Application
Brassica (Cole) leafy vegetables	0 days
Bulb vegetables	
Canola	
Carrots	
Cereals (wheat, barley, triticale)	
Chickpeas	
Cotton	
Cucurbit vegetables	
Fruiting vegetables	
Potatoes	
Soybeans	
Strawberries	
Sugar beets	
Sweet corn	
Tomatoes	
Tuberous and corm vegetables	
All other crops intended for food and feed	8 months

**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%20management)).

**IPM:** Inspire 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 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 is in the Group 3 class fungicides. The mode of action of Inspire 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 should not be alternated or tank mixed with any fungicide to which resistance has already developed.

For resistance management, do not apply to plants grown for transplanting purposes.

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## SPRAY EQUIPMENT

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### Nozzles

- Equip sprayers with nozzles that provide accurate and uniform application.
- Nozzles should be the same size and uniformly spaced across the boom.
- Calibrate sprayer before use.
- It is suggested that screens be used to protect the pump and to prevent nozzles from clogging.
- Screens placed on suction side of pump should be *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 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 to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after Inspire has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

**Inspire + Tank Mixtures:** Inspire is usually compatible with all tank-mix partners. To determine the physical compatibility of Inspire 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 to the spray tank.
- Allow Inspire 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 10 gals. of water per acre, unless specified otherwise.

**Aerial Application:**

- Use only on crops where aerial applications are indicated.
- Apply in a minimum of 5 gals. of water per acre, unless specified otherwise. For pome fruit apply in a minimum of 10 gals. of water per acre.
- Avoid application 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 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 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 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 required to treat the area covered by the irrigation system.
- Add the required amount of Inspire 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 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 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 through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution.

- Determine the amount of Inspire required to treat the area covered by the irrigation system.
- Add the required amount of Inspire 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 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 (lb. ai)	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 carpophila</i> ) Shot hole ( <i>Wilsonmyces carpophilus</i> )	5 - 7 (0.08 - 0.114)	Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire on a 14-21 day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.  If monitoring or history indicates the presence of Alternaria, apply 7 ozs./A of Inspire in the late spring (mid April to beginning of May) and then repeat the treatment 2-3 weeks later.  For blossom blight, begin applications at early bloom and continue through petal fall.  <i>Optional language if label has a rate range and a single interval:</i> If disease pressure is high, use the highest rate.  <i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.  <i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./A of water is recommended.</p>			

**Specific Use Restrictions:**

- 1) Do not use an adjuvant.
- 2) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per crop).
- 3) Do not apply within 14 days of harvest (14 day PHI).

11/8/14

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
<p><b>Brassica (Cole) leafy Vegetables</b> subgroup</p> <p>Broccoli Brussels sprouts Cabbage Cauliflower Collards Kale Mustard greens</p> <p>See additional crops below.</p> <p>Including all cultivars and/or hybrids of these.</p>	<p>Alternaria diseases (<i>Alternaria</i> spp.) Anthracnose (<i>Colletotrichum higginsianum</i>) Cercospora leafspot (<i>C. brassicicola</i>) Powdery mildew (<i>Erysiphe polygoni</i>)</p>	<p>5 - 7 (0.08 - 0.114)</p>	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire on a 7-10 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 and a single interval:</i> If disease pressure is high, use the highest rate.</p> <p><i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.</p> <p><i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.</p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground, chemigation, or aerial application. A minimum of 15 gals./A 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>			
<p><b>Complete list of brassical leafy vegetables:</b> Broccoli; broccoli, Chinese (gai lon); broccoli raab (rapini); Brussels sprouts; cabbage; cabbage, Chinese (bok choy); cabbage, Chinese (napa); cabbage, Chinese mustard(gai choy); cauliflower; cavalo broccolo; collards; kale; kohlrabi; mizuna; mustard greens; mustard spinach; rape greens</p> <p><b>Specific Use Restrictions:</b></p> <ol style="list-style-type: none"> <li>1) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season).</li> <li>2) Do not apply within 1 days of harvest (1 day PHI).</li> </ol>			

7/7/61

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
<b>Bulb Vegetables</b>  Onions, bulb Garlic Shallot  Onions, green Leek Welch onion	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>	5 - 7 (0.08 - 0.114)	Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire on a 7-10 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 and a single interval:</i> If disease pressure is high, use the highest rate.  <i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.  <i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.

**Application:** For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground, chemigation, or aerial application. A minimum of 15 gals./A 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.

**Complete list of bulb crops:** Chive, fresh leaves, chive, Chinese, fresh leaves, daylily, bulb, elegans hosta, fritillaria, bulb, fritillaria, leaves, garlic, bulb, garlic, great-headed, bulb, garlic, serpent, bulb, kurrat, lady's leek, leek, leek, wild, lily, bulb, onion, Beltsville bunching, onion, bulb, onion, Chinese, bulb, onion, fresh, onion, green, onion, macrostem, onion, pearl, onion, potato, bulb, onion, tree, tops, onion, Welsh, tops, shallot, bulb, shallot, fresh leaves, cultivars, varieties, and/or hybrids of these.

**Specific Use Restrictions:**

- 1) For green onions, do not apply more than 21 fl. ozs./A of Inspire per crop (0.34 lb. ai/A per season).
- 2) For dry bulb onions, do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season).
- 3) Do not apply within 7 days of harvest (7 day PHI).

20/14

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
Carrots	<p>Cercospora leaf spot (<i>Cercospora carotae</i>)</p> <p>Alternaria leaf blight (<i>Alternaria dauci</i>)</p> <p>Powdery mildew (<i>Erysiphe</i> spp.)</p>	<p>5.5-7 (0.09-0.114)</p>	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire on a 7-10 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 and a single interval:</i> If disease pressure is high, use the highest rate.</p> <p><i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.</p> <p><i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.</p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground, chemigation, or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./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 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season).
- 2) Do not apply within 7 days of harvest.

2/14

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
Chickpea	Alternaria blight ( <i>A. alternata</i> )  Ascochyta blight ( <i>A. rabiei</i> )  Powdery mildew ( <i>Leveillula taurica</i> )  Rust ( <i>Uromyces ciceris-arietini</i> )	5.5-7 (0.09-0.114)	Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire on a 7-10 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 and a single interval:</i> If disease pressure is high, use the highest rate.  <i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.  <i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.
<b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground, chemigation, or aerial application. A minimum of 15 gals./A 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.			

**Specific Use Restrictions:**

- 1) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season).
- 2) Do not apply within 14 days of harvest.

22/44

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
<p><b>Citrus</b></p> <p>Grapefruit Lemon Lime Orange (sour and sweet) Tangerine</p> <p>Including all cultivars and/or hybrids of these</p>	<p>Greasy spot <i>(Mycosphaerella citri)</i></p> <p>Melanose <i>(Diaporthe citri)</i></p> <p>Scab <i>(Elsinoe fawcettii)</i></p> <p>Sweet orange scab <i>(Elsinoe australis)</i></p> <p>Albinism <i>(Alternaria alternata pv citri)</i></p> <p>Post bloom fruit drop (PFD) <i>(Colletotrichum acutatum)</i></p> <p>Alternaria leaf and fruit spot <i>(Alternaria citri)</i></p> <p>Diplodia stem-end rot <i>(Diplodia natalensis)</i></p> <p>Phomopsis stem-end rot <i>(Phomopsis citrii)</i></p> <p>Anthracnose <i>(Colletotrichum spp.)</i></p> <p>Black spot <i>(Guignardia citricarpa)</i></p>	<p>5 - 7.7 (0.08 - 0.125)</p>	<p>Inspire applications should begin prior to disease development and continue throughout the season on 7-21 day intervals following the resistance management guidelines. Applications may be made by ground or air. An adjuvant may be added at recommended rates. A horticultural spray oil should be used to improve control of greasy spot.</p> <p><i>Optional language if label has a rate range and a single interval:</i> If disease pressure is high, use the highest rate.</p> <p><i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.</p> <p><i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.</p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./A of water is recommended.</p>			
<p><b>Complete list of citrus fruits:</b> Calamondin; citrus citron; citrus hybrids (includes chironja, tangelo, tangor); grapefruit; kumquat; lemon; lime; mandarin (tangerine); orange, sour; orange, sweet; pummelo; Satsuma mandarin</p>			
<p><b>Specific Use Restrictions:</b></p> <ol style="list-style-type: none"> <li>1) Do not apply more than 30.8 fl. ozs./A of Inspire per crop (0.5 lb. ai/A per season).</li> <li>2) May be applied the day of harvest (0 day PHI).</li> </ol>			

23/44

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
<p><b>Cucurbit Vegetables</b></p> <p>Cantaloupe Cucumber Honeydew Muskmelon Watermelon Pumpkin Squash Zucchini</p> <p>Including cultivars and/or hybrids of these.</p> <p>See additional cucurbit crops below.</p>	<p>Powdery mildew (<i>Sphaerotheca fuliginea</i>, <i>Erysiphe cichoracearum</i>) Alternaria leaf blight (<i>A. cucumerina</i>) Alternaria leaf spot (<i>A. alternata</i>) Anthracnose (<i>Colletotrichum orbiculare</i>) Cercospora leafspot (<i>C. citrullina</i>) Gummy stem blight (<i>Didymella bryoniae</i>) Septoria leaf blight (<i>S. cucurbitacearum</i>) Plectosporium blight (<i>P. tabacinum</i>) Phoma blight (<i>P. exigua</i>) Phyllosticta leafspot (<i>P. cucurbitacearum</i>)</p>	<p>5 - 7 (0.08 - 0.114)</p>	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire on a 7-10 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 and a single interval:</i> If disease pressure is high, use the highest rate.</p> <p><i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.</p> <p><i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.</p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground, chemigation, or aerial application. A minimum of 15 gals./A for ground applications is recommended (20 for gummy stem blight). 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 cucurbit crops:</b> Chayote (fruit); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); <i>Momordica</i> spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe); pumpkin; squash, summer; squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon</p>			
<p><b>Specific Use Restrictions:</b></p> <ol style="list-style-type: none"> <li>1) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season).</li> <li>2) Do not apply within 0 days of harvest (0 day PHI).</li> </ol>			

24/44



Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
<b>Filberts</b> (Hazelnuts)	Eastern Filbert Blight ( <i>Anisogramma anomala</i> )	5 - 7 (0.08 - 0.114)	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire on a 14-21 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 and a single interval:</i> If disease pressure is high, use the highest rate.</p> <p><i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.</p> <p><i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.</p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./A of water is recommended.</p>			
<p><b>Specific Use Restrictions:</b></p> <ol style="list-style-type: none"> <li>1) Do not use an adjuvant.</li> <li>2) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season).</li> <li>3) Do not apply within 14 days of harvest (14 day PHI).</li> </ol>			

25/144

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
<b>Fruiting Vegetables</b> Eggplant Groundcherry Pepino Pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper) Tomatillo Tomato	Early blight <i>(Alternaria solani)</i> Black mold <i>(A. alternata)</i> Gray leafspot <i>(Stemphylium botryosum)</i> Powdery mildew <i>(Leveillula taurica)</i> Septoria leafspot <i>(S. lycopersici)</i> Target spot <i>(Corynespora cassiicola)</i> Anthracnose <i>(Colletotrichum spp.)</i> Leaf mold <i>(Fulvia fulva)</i>	4-7 (0.07-0.11)	<p>Begin applications at first sign of disease or when conditions are conducive for disease development. Apply Inspire on a 7-14 day schedule. Inspire can be used in blocking program using a maximum of two consecutive applications before rotating to fungicides with another mode of action that are registered for these diseases. If disease pressure is high, use the highest rate and shortest interval.</p> <p><i>Optional language if label has a rate range and a single interval:</i> If disease pressure is high, use the highest rate.</p> <p><i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.</p> <p><i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.</p> <p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground, chemigation, or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 5 gals./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 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season).
- 2) Do not use on varieties in which the mature tomatoes will be less than 2 inches (such as cherry tomatoes).
- 3) May be applied the day of harvest (0 day PHI).

26/44

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
<b>Grapes</b> (except Concord, Concord Seedless, and Thomcord. See <b>Precaution</b> under <b>Remarks</b> )	Alternaria rot ( <i>A. alternata</i> ) Powdery mildew ( <i>Uncinula necator</i> ) Rotbrenner ( <i>Pseudopezicula tracheiphila</i> ) Septoria leaf spot ( <i>S. ampelina</i> ) Black Rot ( <i>Guignardia bidwellii</i> ) Angular leafspot ( <i>Mycosphaerella angulata</i> ) Anthracnose ( <i>Elsinoe ampelina</i> ) Leaf Blight ( <i>Pseudocercospora vitis</i> )	5 - 7 (0.08 - 0.114)	<p>For powdery mildew, begin at bud break and apply on a 10-21 day interval, making no more than 2 sequential applications before alternating to a fungicide with a different mode of action.</p> <p>For Black rot - begin when shoot length is 1-3 inches and continue on a 10 day interval.</p> <p>For all other diseases, begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire on a 10-21 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 and a single interval:</i> If disease pressure is high, use the highest rate.</p> <p><i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.</p> <p><i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.</p> <p><b>PRECAUTION: On <i>V. labrusca</i>, <i>V. labrusca</i> hybrids and other non-vinifera hybrids where sensitivity is not known, the use of Inspire by itself or in tank mixtures with materials that may increase uptake (adjuvants, foliar fertilizers) may result in leaf burning or other phytotoxic effects.</b></p> <p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./A of water is recommended.</p>

**Specific Use Restrictions:**

- 1) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season).
- 2) Do not apply within 7 days of harvest (7 day PHI).

27/44

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	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 (0.08 - 0.114)	Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire 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 and a single interval:</i> If disease pressure is high, use the highest rate.  <i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.  <i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.
<b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./A of water is recommended.			
<b>Specific Use Restrictions:</b> 1) Do not use an adjuvant. 2) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season). 3) Do not apply within 14 days of harvest (14 day PHI).			

28/44

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
Pistachios	Panicle and Shoot Blight <i>(Botryosphaeria dothidea)</i> Alternaria late blight <i>(Alternaria spp.)</i> Septoria leaf spot <i>(S. pistaciarum)</i>	5 - 7 (0.08 - 0.114)	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire on a 14-21 day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action.</p> <p>For Botryosphaeria, 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 and a single interval:</i> If disease pressure is high, use the highest rate.</p> <p><i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.</p> <p><i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.</p> <p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./A of water is recommended.</p>

**Specific Use Restrictions:**

- 1) Do not use an adjuvant.
- 2) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season).
- 3) Do not apply within 14 days of harvest (14 day PHI).

29/44

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
<b>Pome Fruit</b> Apple Crabapple Loquat Mayhaw Pear Pear, Oriental Quince	Alternaria blotch ( <i>Alternaria</i> spp.) Brooks fruit spot ( <i>Mycosphaerella</i> <i>pomi</i> ) Cedar apple rust ( <i>Gymnosporangium</i> <i>juniperi-virginianae</i> ) Flyspeck ( <i>Zygophiala</i> <i>jamacaicensis</i> (Formerly known as <i>Schizothyrium pomi</i> ) Powdery mildew ( <i>Podosphaera</i> <i>leucotricha</i> ) Quince rust ( <i>Gymnosporangium</i> spp.) Scab ( <i>Venturia</i> spp.) Sooty blotch ( <i>Gloeodes pomigena</i> )	Inspire 4 ozs. (0.07) + Vanguard® WG 4 ozs. (0.07)  Tank Mixture	<p><b>Mixing Instructions:</b> When mixing, add half the water that is needed to the spray tank. With the agitator running, always add the appropriate amount of Vanguard WG first and allow it to mix thoroughly before adding the Inspire. Then add the remaining amount of water. If making a dilute application use 1.3 fl. ozs. Inspire and 1.3 ozs. Vanguard WG per 100 gals. solution and apply at 300 gals./A.</p> <p><b>For the multi-pack product:</b> To mix enough spray solution to treat 10 acres, add the entire contents of both containers (always adding Vanguard WG first) to the appropriate amount of water for the configuration of the spray equipment. This is equivalent to 4 ozs./A of Inspire + 4 ozs./A of Vanguard WG.</p> <p><b>Apple Scab - Protective Spray Schedule:</b> Apply every 7-10 days starting at ¼-½ inch green tip or when environmental conditions become conducive for scab. Continue through petal fall until the threat of primary scab is complete. For improved fruit scab control, combine Inspire/Vanguard WG tank mix with a protectant fungicide beginning at bloom.</p> <p><b>Apple Scab - Curative Spray Schedule:</b> Use a forecasting system beginning at green tip. Apply within 48 hours of the onset of an infection period. Apply a follow-up spray within 7 days. For improved fruit scab control, combine Inspire/Vanguard WG tank mix with a protectant fungicide beginning at bloom.</p> <p><b>Powdery Mildew:</b> Begin applications of Inspire/Vanguard WG tank mix at tight cluster, and continue on a 7-10 day schedule. Follow Inspire/Vanguard WG tank mix with other fungicides as needed.</p> <p><b>Cedar-Apple Rust, Quince Rust, and Brooks Fruit Spot:</b> Begin applications preventively. Apply Inspire/Vanguard WG tank mix alone or in combination with a protectant fungicide on a 7-10 day schedule through the second cover-spray.</p> <p><b>Sooty Blotch, Flyspeck:</b> For early season control, begin applications preventively. Apply Inspire/Vanguard WG tank mix alone or in combination with a protectant fungicide on a 7-10 day schedule through the second cover spray. Follow Inspire/Vanguard WG tank mix with other fungicides as needed.</p>
<p><b>Resistance Management:</b> To help prevent resistance, it is recommended to make no more than 2 consecutive applications with Inspire/Vanguard WG tank mix or another Group 3 fungicide or a Group 3 fungicide mixture before alternating to a different mode of action.</p>			
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire/Vanguard WG tank mix can be applied by either ground or aerial application. A minimum of 40 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./A of water is required.</p>			

**Specific Use Restrictions:**

- 1) Do not apply more than 20 fl. ozs./A of Inspire per crop (0.33 lb. ai/A per season).
- 2) Do not use more than 30 ozs./A of Vanguard WG per crop (1.4 lb. ai/A per year).
- 3) Refer to the Vanguard WG label for addition precautions.
- 4) Do not apply Inspire/Vanguard WG tank mix within 72 days of harvest (72 day PHI).

30/11

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
<b>Potatoes</b> For other crops in this subgroup, please see below	Black dot ( <i>Colletotrichum coccodes</i> ) Brown spot ( <i>Alternaria alternata</i> ) Early blight ( <i>Alternaria solani</i> ) Powdery mildew ( <i>Erysiphe cichoracearum</i> ) Septoria leafspot ( <i>Septoria</i> spp.)	4-7 (0.07-0.11)	Begin applications at first sign of disease or when conditions are conducive for disease development. Apply Inspire on a 7-14 day schedule. Inspire can be used in blocking program using a maximum of 2 consecutive applications before rotating to fungicides with another mode of action that are registered for these diseases.  <i>Optional language if label has a rate range and a single interval:</i> If disease pressure is high, use the highest rate.  <i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.  <i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.
<b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground, chemigation, or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 5 gals./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.			
<b>Vegetables, tuberous and corm, subgroup:</b> Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Burdock, Canna, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (Taro), Ginger, Leren, Tanier, Tumeric, and Yam (bean and true).			
<b>Specific Use Restrictions:</b> 1) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season). 2) Do not apply within 14 days of harvest (14 day PHI).			

3/1/24

Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	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> )	5.5-7 (0.09-0.114)	Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire on a 7-10 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 and a single interval:</i> If disease pressure is high, use the highest rate.  <i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.  <i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.
<b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground, chemigation, or aerial application. May be applied in a minimum of 2 gpa by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.			
<b>Specific Use Restrictions:</b> 1) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season). 2) Do not apply within 14 days of harvest. 3) Do not feed soybean hay, forage and silage.			

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Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	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 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 spp.)</i>  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>	5.5-7 (0.09-0.114)	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 preharvest 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.  For all other diseases, follow the Brown rot blossom blight schedule. Make additional applications on a 10-14 interval from the end of petal fall to harvest.  <i>Optional language if label has a rate range and a single interval:</i> If disease pressure is high, use the highest rate.  <i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.  <i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground or aerial application. Stone fruit diseases are most effectively controlled by ground applications. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./A of water is recommended.</p>			

**Specific Use Restrictions:**

- 1) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season).
- 2) Inspire may be applied on the day of harvest (0 day PHI).

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Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
Strawberries	Anthracnose ( <i>Colletotrichum acutatum</i> )  Leaf spot ( <i>Cercospora fragariae</i> )  Powdery mildew ( <i>Sphaerotheca macularis</i> )  Leaf rust ( <i>Phragmidium potentillae</i> )	5.5-7 (0.09-0.114)	Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire on a 7-14 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 and a single interval:</i> If disease pressure is high, use the highest rate.  <i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.  <i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.
<b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by ground, chemigation or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./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.			
<b>Specific Use Restrictions:</b> 1) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season). 2) Inspire may be applied up to 0 day of harvest.			

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Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	Remarks
Sugar Beets	Cercospora leafspot ( <i>C. beticola</i> ) Powdery mildew ( <i>Erysiphe polygoni</i> )	4-7 (0.07-0.11)	<p>Apply Inspire on a 7-28 day schedule, alternating with 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 and a single interval:</i> If disease pressure is high, use the highest rate.</p> <p><i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.</p> <p><i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.</p>
<p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground, chemigation, or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 5 gals./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>Specific Use Restrictions:</b></p> <ol style="list-style-type: none"> <li>1) Do not apply more than 28 fl. ozs./A of Inspire per crop (0.46 lb. ai/A per season).</li> <li>2) Do not apply within 7 days of harvest (7 day PHI).</li> </ol>			

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Crop	Target Diseases	Use Rate fl. oz. product/A (lb. ai)	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 (0.08 - 0.114)	<p>Begin applications prior to disease onset when conditions are conducive for disease. Apply Inspire on a 14-21 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 and a single interval:</i> If disease pressure is high, use the highest rate.</p> <p><i>Optional language if label has a single rate and interval range:</i> If disease pressure is high, use the shortest interval.</p> <p><i>Optional language if label has a rate range and interval range:</i> If disease pressure is high, use the shortest interval and highest rate.</p> <p><b>Application:</b> For best results, sufficient water volume must be used to provide thorough coverage. Inspire can be applied by either ground, or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./A of water is recommended.</p>
<p><b>Specific Use Restrictions:</b></p> <ol style="list-style-type: none"> <li>1) Do not use an adjuvant.</li> <li>2) Do not apply more than 28 fl. oz./A of Inspire per crop (0.46 lb. ai/A per season).</li> <li>3) Do not apply within 14 days of harvest (14 day PHI).</li> </ol>			

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**Inspire Conversion Table**

Fl. oz. product/A	Lb. ai/A
2	0.0325
3	0.05
4	0.065
5	0.08
5.5	0.09
6	0.10
7	0.114
7.7	0.125
8	0.13

**Ornamentals** – For outdoor application to established ornamentals in landscaped areas, including (but not limited to) recreational parks, institutional sites, golf courses and residential properties by commercial and non-professional (i.e., homeowner) applicators.

Use the calibrated measuring [device] [syringe] supplied with the product to accurately measure the designated amount of product to be added to each gallon of water.

**Note:** This use for application to ornamentals does not include crops grown for production, harvest and sale in commercial greenhouse or nursery production sites.

Crop	Disease	Rate MI/1 Gal. (1 Gal. Treats 1000 Sq. Ft.)	Spray interval days	Timing of application
Carnation	Rust	4.8	7-10	Begin applications when flowers are half opened or when conditions are conducive for disease development. Apply Inspire on a 7-10 schedule. Particular care should be taken to achieve thorough coverage.
Gladiolus	Rust	4.8	7-14	Begin applications at the 2-3 leaf stage or when conditions are conducive for disease development. Apply Inspire on a 7-10 schedule. Particular care should be taken to achieve thorough coverage.
Iris	Rust	1.4-2.7	7-21	Begin applications at the first sign of disease or when conditions are conducive for disease development. Apply Inspire on a 7-10 schedule. Particular care should be taken to achieve thorough coverage.
Roses	Black spot Rust Powdery mildew	5.4	7-14	Begin applications at the first sign of disease or when conditions are conducive for disease development. Apply Inspire on a 7-10 schedule. Particular care should be taken to achieve thorough coverage.

**Restrictions:** Do not apply more than 21.7 ml. per 1,000 square feet in a year.

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**STORAGE AND DISPOSAL**

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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**

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. 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 ¼ 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, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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

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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, Inc.

P.O. Box 18300  
Greensboro, North Carolina 27419-8300

SCP

Container Label

GROUP 3 FUNGICIDE

Inspire®

Fungicide

Active Ingredient:	
Difenoconazole*:	23.2%
Other Ingredients**:	76.8%
Total:	100.0%

\*CAS No. 119446-68-3

\*\*Contains petroleum distillates

Contains 2.08 lbs. ai/gal. of difenoconazole

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

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.

<p><b>AGRICULTURAL USE REQUIREMENTS</b></p> <p>Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.</p>
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EPA Reg. No. 100-1262

EPA Est.

Product of

SCP 1262A-

Net Contents



### Precautionary Statements

#### Hazards to Humans and Domestic Animals

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if swallowed, absorbed through skin, or inhaled. Avoid contact with skin, eyes, or clothing.

<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 swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</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 by mouth to an unconscious person.</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 inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</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>	

#### 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 products' 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.

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## **STORAGE AND DISPOSAL**

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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.

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

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

SCP 1262A-

Inspire 1262 MAS 0410 CLEAN – df – 3/16/11

Inspire 1262 MAS 0410 AMENDD 1209 CLEAN – sw – 4/20/11  
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CHRON:

Inspire Master 0410 – bb – 8-23-10  
Inspire 1262 MAS 0410 CLEAN – df – 3/16/11

Inspire 1262 MAS 0410 AMENDD 1209 CLEAN – sw -4/20/11  
000100-01262.20091217D.INSPIRE-AMENDD-CLEAN.PDF