UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

July 25, 2019

Odette Alexander-Watkins Regulatory Product Manager Syngenta Crop Protection, LLC. P.O. Box 18300 Greensboro, NC 27419

Subject: Registration Review Label Mitigation for Clodinafop-propargyl Product Name: Discover NG Herbicide EPA Registration Number: 100-1173 Application Date: June 29, 2018 Decision Number: 551860

Dear Ms. Alexander-Watkins:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Clodinafop-propargyl Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions about this letter, please contact Darius Stanton by phone at 703-347-0433, or via email at <u>Stanton.Darius@EPA.gov</u>.

Page 2 of 2 EPA Reg. No. 100-1173 Decision No. 551860

Sincerely,

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Linda Arrington, Branch Chief Risk Management and Implementation Branch 4 Pesticide Re-Evaluation Division Office of Pesticide Programs

Enclosure

#### IMPORTANT NOTICE

#### U.S. LABEL – It is a violation of United States law to use this product in the United States in a manner inconsistent with its United States labeling

#### CLODINAFOP-PROPARGYL GROUP 1 HERBICIDE

#### Discover® NG

Herbicide

A single pass liquid postemergence herbicide for control of grass weeds in wheat (including Durum)

#### **Active Ingredient:**

Clodinafop-propargyl*	6.4%
Other Ingredients:	93.6%
Total:	100.0%

\*CAS No. 105512-06-9

Discover® NG Herbicide is formulated as an emulsifiable concentrate (EC) and contains 0.5 Ib of active ingredient per gallon.

#### **KEEP OUT OF REACH OF CHILDREN.**

## CAUTION

**Skin Irritant** 

See additional Precautionary Statements and Directions for Use inside booklet.

EPA Reg. No. 100-1173 EPA Est.

SCP XXXX gallons Net Contents

[Batch Code: \_\_\_\_\_] (For nonrefillables only.)

# ACCEPTED

Jul 25, 2019

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 100-1173

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# 1.0 FIRST AID

FIRST AID								
If in eyes	<ul> <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>							
lf on skin or clothing	<ul> <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>							
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>							
If inhaled	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>							
Have the product	container or label with you when calling a poison control center or							
doctor, or going fo	or treatment.							
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call 1-800-888-8372								

# **2.0** PRECAUTIONARY STATEMENTS

### 2.1 Hazards to Humans and Domestic Animals

### CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing.

## 2.2 Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as nitrile or butyl rubber
- Shoes plus socks

### 2.2.1 USER SAFETY REQUIREMENTS

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.

### 2.2.2 ENGINEERING CONTROLS

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.

### 2.2.3 USER SAFETY RECOMMENDATIONS

#### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing 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.

# 2.3 Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

### 2.3.1 NON-TARGET ORGANISMS ADVISORY

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated area. Protect the forage and habitat of non-target organisms by minimizing spray drift. For further guidance and instructions on how to minimize spray drift, refer to the Spray Drift Management section, **Section 7.3** of this label.

## 2.4 Physical or Chemical Hazards

Do not use or store near heat or open flame.

# DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Use Discover NG Herbicide only in accordance with specifications on this label or in separately EPA approved labeling instructions for this product.

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.

# FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY AND/OR POOR WEED CONTROL.

### 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 (WPS).

# Do not enter or allow worker entry into treated areas during the minimum restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves, such as nitrile rubber or butyl rubber
- Shoes plus socks

# **3.0** PRODUCT INFORMATION

Discover NG Herbicide is a systemic postemergence herbicide for the control of wild oat, volunteer oat, green foxtail, yellow foxtail, giant foxtail, barnyardgrass, canarygrass, Persian darnel, volunteer corn, and Italian (annual) ryegrass in all varieties of wheat (including Durum). Discover NG Herbicide is rapidly absorbed by weed foliage and translocated to the growing points where it inhibits the acetyl CoA carboxylase (ACCase) enzyme. Susceptible weed species generally stop growing within 48 hours, turn yellow within one to three weeks, and are completely controlled within three to five weeks. Level and rate of control depend on weed species, growing conditions, crop competition, and coverage.

Although Discover NG Herbicide does not control broadleaf weeds, it can be tank mixed with a wide range of broadleaf herbicides to provided broad spectrum one-pass weed control.

Discover NG Herbicide applied alone is rainfast 30 minutes after application.

### 3.1 Weed Resistance Management Practices

#### CLODINAFOP-PROPARGYL GROUP 1 HERBICIDE

Discover NG Herbicide is a Group 1 Herbicide (ACCase-inhibitor mode of action). Some naturally occurring grass weed populations have been identified as resistant to herbicides with the ACCase-inhibitor mode of action. Selection of resistant biotypes, through repeated use of these herbicides in the same field, may result in control failures. A resistant biotype may be present if poor performance cannot be attributed to adverse weather conditions or improper application methods.

Contact your local Syngenta representative, retailer, crop advisor or extension agent to determine if weeds resistant to this mode of action are present in your area. If resistant biotypes have been reported, use the full labeled rate of this product, apply at the labeled timing, and tank-mix with a different mode of action product so there are multiple effective modes of application for each suspected resistant weed.

### 3.1.1 PRINCIPLES OF HERBICIDE RESISTANT WEED MANAGEMENT

#### Scout and know your field

 Know weed species present in the field to be treated through scouting and field history. An understanding of weed biology is useful in designing a resistance management strategy. Ensure the weed management program will control all weeds present. • Fields should be scouted prior to application to determine species present and growth stage. Always apply this herbicide at the full labeled rate and correct timing for the weeds present in the field.

#### Utilize non-herbicidal practices to add diversity

• Use diversified management tactics such as cover crops, mechanical weed control, harvest weed seed control, and crop rotation as appropriate.

#### Use good agronomic practices, start clean and stay clean

- Use good agronomic practices that enhance crop competitiveness.
- Plant into weed-free fields utilizing tillage or an effective burndown herbicide for control of emerged weeds.
- Sanitize farm equipment to avoid spreading seed or vegetative propagules prior to leaving fields.

#### Difficult to control weeds

- Fields with difficult to control weeds should be planted in rotation with crops that allow the use of herbicides with an alternative mode of action or different management practices.
- Difficult to control weeds may require sequential applications, such as a broad spectrum preemergence herbicide followed by one or more postemergence herbicide applications. Utilize herbicides containing different modes of action effective on the target weeds in sequential applications.

#### Do not overuse the technology

• Do not use more than two applications of this or any other herbicide with the same mode of action in a single growing season unless mixed with an herbicide with a different mode of action which provides overlapping spectrum for the difficult to control weeds.

#### Scout and inspect fields following application

- Prevent an influx of weeds into the field by controlling weeds in field borders.
- Scout fields after application to verify that the treatment was effective.
- · Suspected herbicide resistant weeds may be identified by these indicators
  - Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
  - A spreading patch of non-controlled plants of a particular weed species; and
  - Surviving plants mixed with controlled individuals of the same species.
- Report non-performance of this product to your Syngenta retailer, Syngenta representative, or call 1-866-Syngent(a) (866-796-4368). If resistance is suspected

ensure weed escapes are controlled using an herbicide with an effective mode of action and/or use non-chemical means to prevent further seed production.

#### Prevent weed escapes before, during, and after harvest

• Do not allow weed escapes to produce seed or vegetative structures such as tubers or stolons which contribute to spread and survival. Consider harvest weed seed management and control weeds post-harvest to prevent seed production.

# 4.0 APPLICATION DIRECTIONS

### 4.1 Methods of Application

Applications with Discover NG Herbicide alone or in tank mixtures are permitted by ground and by air. Post-emergence applications are allowed as specified in **Section 9.0** unless restricted in **Section 7.0**.

## 4.2 Application Equipment

- Configure spray equipment to provide accurate and uniform coverage of the target area and minimize potential for spray drift.
- To ensure accuracy, calibrate sprayer before each use.
- For information on spray equipment and calibration, consult spray equipment manufacturers and/or state recommendations.
- All ground and aerial application equipment must be properly maintained.
- 80° or 110° flat fan nozzles are recommended for optimum spray coverage.
- Use a screen or strainer with 16-mesh or coarser on the suction side of the pump. Do not place in the recirculation line unless using a roller or piston pump. Use 50-mesh or coarser screens between the pump and boom, and at the nozzles.
- Pumps must have the capacity to maintain spray pressure (35-40 psi) and to maintain suspension through tank agitation. A centrifugal pump is recommended with an agitation rate of 20 gal/minute/100 gal tank size. Agitation must be maintained during mixing and spraying.

### 4.3 Application Volume and Spray Coverage

- Thorough spray coverage of target weeds is essential for consistent control.
- For ground application, apply the spray mixture in a volume of 5-10 gal per acre. Use 10 gal/A under dry conditions or dense weed populations. Volumes greater than 10 gal/A should be avoided as reduced grass control may occur.
- Nozzles must be uniformly spaced along the boom to provide accurate and uniform coverage. Point the nozzles forward in the direction of travel at an angle of 45° for optimum coverage of grass weeds. Observe sprayer nozzles frequently during the spraying operation to ensure that the spray pattern is uniform.
- Boom height for broadcast over-the-top application should be based upon the freestanding height of the crop, not the height above the soil surface, and should be at least 12 inches above the crop.

- For aerial applications, apply in a minimum spray volume of 3 gal/A. Use a minimum of 5 gal/A under dry conditions or dense weed populations. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.
- For aerial applications, apply at a maximum height of 10 ft above the crop with low-drift nozzles at a maximum pressure of 40 psi to help assure accurate application within the target area.

## 4.4 Mixing Directions

- 1. Thoroughly clean spray equipment before using this product. Dispose of the cleaning solution in a responsible manner.
- 2. Prepare no more spray mixture than is needed for the immediate operation.
- 3. Keep product container tightly closed when not in use.
- 4. Agitate the spray solution before and during application.
- 5. Do not let the spray mixture stand overnight in the spray tank.
- 6. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

### 4.4.1 DISCOVER NG HERBICIDE ALONE

- 1. Clean spray tank and half fill with clean water. Start agitation or bypass system.
- 2. Add correct amount of Discover NG Herbicide.
- 3. Agitate for 2-3 minutes.
- 4. Add spray adjuvant (if used).
- 5. Agitate for 1-2 minutes before adding remainder of water and then maintain constant agitation.
- 6. After any break in spraying operations, agitate thoroughly before spraying again.
- 7. Use the spray suspension as soon as it is prepared.
- 8. If an oily film starts to build up in the tank, drain tank and then clean with a detergent.

### 4.4.2 TANK-MIX PRECAUTIONS

- Discover NG Herbicide may be tank mixed with other pesticides. It is the pesticide user's
  responsibility to ensure that all products are registered for the intended use. Read and
  follow the applicable restrictions and limitations and directions for use on all product labels
  involved in tank mixing. Users must follow the most restrictive directions for use and
  precautionary statements of each product in the tank mixture.
- The safety of all potential tank mixes on all crops may not have been tested. Before applying any tank mixture not specifically recommended on this label, the safety to the target crop should be confirmed.
- Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are labeled.
- Tank mixes of Discover NG Herbicide with other pesticides, fertilizers, or any other additives not specifically labeled for use with Discover NG Herbicide may result in tank mix incompatibility or unsatisfactory performance. In such cases, always check tank mix compatibility by conducting a jar test according to guidance in **Section 4.4.3** before actual

tank mixing.

### 4.4.3 TANK-MIX COMPATIBILITY

- Conduct a jar test using a 1 pt to 1 qt container with lid by adding water or other intended carrier such a liquid fertilizer to the jar.
- Next, add the appropriate amount of pesticides(s) or tank-mix partner(s) in their relative proportions based on recommended label rates. Add tank-mix components separately in the order described in the tank-mixing section, **Section 4.4.4**. After each addition, shake or stir gently to thoroughly mix.
- After all ingredients have been added, put the lid on the jar, tighten and invert the jar 10 times to mix.
- After mixing, let the mixture stand 15–30 minutes and then examine for signs of incompatibility such as obvious separation, large flakes, precipitates, gels or heavy oily film on the jar.
- If the mixture remains mixed or can be remixed readily, it is physically compatible and can be used.
- If the mixture is incompatible, repeat the test using a compatibility agent at the recommended rate. Or, if applicable, slurry dry formulations in water before adding to the jar. If incompatibility is still observed after following these procedures, do not use the mixture.
- After compatibility testing is complete, dispose of any pesticide wastes in accordance with the Storage and Disposal section, **Section 9.0**, of this label.

### 4.4.4 DISCOVER NG HERBICIDE IN TANK MIXTURES

- 1. Clean spray tank and half fill with clean water. Start agitation or bypass system.
- 2. Add the tank-mix product FIRST, prior to adding Discover NG Herbicide and agitate for 2-3 minutes.
- 3. Add correct amount of Discover NG Herbicide.
- 4. Agitate for 2-3 minutes.
- 5. Add spray adjuvant (if used).
- 6. Agitate for 1-2 minutes before adding remainder of water and then maintain constant agitation.
- 7. After any break in spraying operations, agitate thoroughly before spraying again.
- 8. Use the spray suspension as soon as it is prepared.
- 9. If an oily film starts to build up in the tank, drain tank and then clean with a detergent.

### 4.4.5 SPRAY ADDITIVES

- A non-phytotoxic methylated seed oil (MSO) (approved for use on growing crops) may be used at the rate of 0.25% v/v (2 pt/100 gal) of spray volume mixture.
- MSO can enhance weed control under low moisture or high temperature stress conditions or when spray volumes exceed 10 gallons of water per acre.

## 4.5 Sprayer Cleanout

Thoroughly clean application equipment immediately after spraying. Ensure that all traces of the product are removed. The following recommendations are provided:

- 1. Drain and flush tank walls, boom, and all hoses for 10 minutes with clean water. **Do not** clean the sprayer near desirable vegetation, wells, or other water sources.
- 2. Remove the nozzles and screens and wash separately.
- 3. Dispose of all rinsates in accordance with state and local regulations.
- 4. If a tank mix partner is used, always check tank mix partner label for any additional cleanup procedures.

# 5.0 ROTATIONAL CROPS

# 5.1 Rotational Crop Restrictions

The following crops may be planted at the specified interval following application of Discover NG Herbicide.

Сгор	Plant-Back Interval
Wheat (including Durum)	0 days
All other crops	30 days

# 6.0 Cover Crops

A cover crop can be an important tool for the overall farm cropping system. Cover crops are planted for conservation purposes, soil erosion control, soil health improvement, water quality improvement and weed management. A cover crop can be a single crop or a combination of crops, including grasses and/or broadleaf crops.

After harvest of a Discover NG Herbicide treated crop, planting of a cover crop is allowed provided the cover crop is not grazed or fed to livestock nor harvested for food. Terminate the cover crop through natural causes such as frost or intentional termination by herbicide application, crimping, rolling, tillage or cutting.

All possible cover crops or cover crop combinations have not been tested for tolerance to this product. Before planting the cover crop, determine the level of tolerance for the intended cover crops by conducting a field bioassay. Refer to **Section 6.1** for instructions on how to conduct a field bioassay.

# 6.1 Field Bioassay for Cover Crops

A field bioassay is a method of determining if herbicide residues are present in the soil at concentrations high enough to adversely affect crop growth.

Conduct the field bioassay by planting several strips of the desired cover crop across the field which has been previously treated with Discover NG Herbicide. Plant the cover crop strips

perpendicular to the direction of the product application. Locate the strips so that all the different field conditions are encountered, including differences in field terrain, soil texture, organic matter, pH, and drainage.

If the cover crop does not show adverse effects such as crop injury and/or stand reduction, the field can be planted to this cover crop. If injury and/or stand reduction are visible, wait two to four weeks for further herbicide degradation to occur and repeat the bioassay. Alternatively, select a different cover crop and repeat the bioassay. Only plant cover crops that show acceptable tolerance in the field bioassay.

# 7.0 Restrictions and Precautions

### 7.1 Use Restrictions

• **DO NOT** apply this product through any type irrigation system.

# 7.2 Use Precautions

- Avoid large spray overlaps which result in excessive rates in the overlap areas.
- Avoid application under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur.
- Do not allow spray to drift to adjacent fields seeded to crops other than wheat.
- To reduce spray drift, do not apply under windy conditions.
- Allow adequate distance between target area and desirable vegetation to prevent drift to non-target areas.
- For further guidance and instructions on how to minimize spray drift, refer to Section 7.3.

# 7.3 Spray Drift Management

- As with all crop protection products, it is important to avoid off-target movement onto adjacent land or crops, as even small amounts may injure sensitive plants.
- To reduce spray drift, the following spray drift management requirements must be followed.
- The interaction of many equipment and weather-related factors determines the potential for spray drift.
- The applicator and grower must consider the interaction of equipment and weatherrelated factors to ensure that the potential for drift to sensitive non-target plants is minimal.
- This pesticide may only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, non-target plants) is minimal (i.e., when the wind is blowing away from the sensitive area).
- Consult with local and State agricultural authorities for information regarding avoiding or minimizing spray drift.
- Avoid all direct or indirect contact (such as spray drift) of Discover NG Herbicide with crops other than those recommended for treatment on this label, since injury may occur.

### 7.3.1 AERIAL APPLICATIONS

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is required for pilot safety.
- The boom length must not exceed 75% of the wingspan for airplanes or 90% of the rotor diameter for helicopters.
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Do not apply during temperature inversions.

### 7.3.2 GROUND BOOM APPLICATIONS

- Apply with the nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy unless making a turf, pasture, or rangeland application, in which case applicators may apply with a nozzle height no more than 4 feet above the ground.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- Do not apply during temperature inversions.

## 7.4 Spray Drift Advisories

- AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.
- BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### 7.4.1 IMPORTANCE OF DROPLET SIZE

- An effective way to reduce spray drift is to apply large droplets.
- Use the largest droplets that provide target pest control.
- While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

### 7.4.2 CONTROLLING DROPLET SIZE - AIRCRAFT

 Adjust Nozzles - Follow nozzle manufacturer's recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

### 7.4.3 CONTROLLING DROPLET SIZE - GROUND BOOM

- **Volume** Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- **Pressure** Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- **Spray Nozzle** Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

### 7.4.4 BOOM HEIGHT – GROUND BOOM

- Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage.
- For ground equipment, the boom should remain level with the crop and have minimal bounce.

### 7.4.5 RELEASE HEIGHT - AIRCRAFT

- Higher release heights increase the potential for spray drift.
- When applying aerially to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.

### 7.4.6 SHIELDED SPRAYERS

- Shielding the boom or individual nozzles can reduce spray drift.
- Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

### 7.4.7 TEMPERATURE AND HUMIDITY

• When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

### 7.4.8 TEMPERATURE INVERSIONS

- Drift potential is high during a temperature inversion.
- Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind.
- The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator.
- Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.
- Avoid applications during temperature inversions.

### 7.4.9 WIND

- Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.
- Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

### 7.4.10 WINDBLOWN SOIL PARTICLES

- Discover NG Herbicide has the potential to move off-site due to wind erosion.
- Soils that are subject to wind erosion usually have a high silt and/or fine to very fine sand fractions and low organic matter content.
- Other factors which can affect the movement of windblown soil include the intensity and direction of prevailing winds, vegetative cover, site slope, rainfall, and drainage patterns.
- Avoid applying Discover NG Herbicide if prevailing local conditions may be expected to result in off-site movement.

# 8.0 CROP USE DIRECTIONS

## 8.1 Wheat

### 8.1.1 POSTEMERGENCE APPLICATIONS

Wheat	•	s, and/or hybrids of these) Durum	
Target Weeds	Rate (fl oz/A)	Application Timing	Use Directions
Barnyardgrass, Canarygrass, Green Foxtail, Volunteer Corn, Volunteer (Tame) Oat, Wild Oat, Yellow Foxtail	12.8	Apply to all types of wheat (including Durum) from the 2- leaf stage to pre-boot stage.	For optimum results, apply Discover NG Herbicide to actively growing weeds. An early application will maximize crop yields by reducing weed competition. For Wild Oat, Volunteer Oat, and Canarygrass, apply at the 1 to 6
Giant Foxtail, Italian (Annual) Ryegrass, Persian Darnel	16		<ul> <li>stage on main stem, prior to emergence of the 4<sup>th</sup> tiller.</li> <li>For Green Foxtail, Yellow Foxtail, Giant Foxtail, apply at the 1 to 5 leaf stage on main stem. For optimum control, apply prior to emergence of the 3<sup>rd</sup> tiller.</li> <li>For Persian Darnel, Italian (Annual) Ryegrass, Barnyardgrass, Volunteer Corn, apply at the 1 to 5 leaf stage on main stem. For optimum control, apply before tillering.</li> <li>Weed control can be reduced or delayed under conditions of stress, such as drought, heat, insufficient fertility, flooding, and prolonged cool temperatures.</li> <li>Grass escapes or retillering may occur if application is made during prolonged conditions of stress.</li> <li>Optimum weed control will be obtained if application is delayed until conditions of stress have ended and weeds are once again actively growing.</li> <li>NOTE: One case (2 X 2.5 gal.) of Discover NG Herbicide treats 40</li> </ul>

acres at the 16 fl oz/A rate and 50 acres at the 12.8 fl oz/A rate.
w fertility, drought, flooding, disease elow 40°F during the period 48 hours
pp-propargyl-containing products mum of 30 days following
,

c. Hay: 30 days

### 8.1.2 TANK MIX COMBINATIONS WITH BROADLEAF HERBICIDES WITH DISCOVER NG HERBICIDE AT 12.8 FL OZ/A

		Weeds Controlled by Discover NG Herbicide Applied at 12.8 fl oz/A									
Broadleaf Herbicide	Rate	Wild Oat	Volunteer Oat	Green Foxtail	Yellow Foxtail	Barnyard -grass	Canary- grass	Volunteer Corn			
2,4-D Amine	0.5-0.75 pt/A	С	С	PC	PC	-	С	-			
Affinity™Tank Mix <sup>a</sup> + MCPA Ester	0.6 oz/A + 0.5- 0.75 pt/A	С	С	-	-	-	-	-			
Affinity TankMix <sup>a</sup> + Starane™	0.6 oz/A + 0.33- 0.67 pt/A	С	С	-	-	-	-	-			
Ally® Extra SG <sup>A</sup>	0.3-0.5 oz/A	С	С	PC	PC	-	С	-			
Ally® XP <sup>A</sup>	0.1 oz/A	С	С	С	PC	-	С	-			
Amber® <sup>A</sup>	0.28- 0.47 oz/A	С	С	С	PC	-	С	-			
Banvel®	2-3 oz/A	С	С	PC	PC	-	С	-			
Banvel+ MCPA Ester	2 oz/A + 0.5-0.75 pt/A	С	С	PC	-	-	-	-			
Banvel® SGF	4-6 oz/A	С	С	PC	PC	-	С	-			
Bronate® Advanced	0.8-1.2 pt/A	С	С	С	С	С	С	С			
Buctril®	0.75-1.5 pt/A	С	С	С	С	С	С	С			
Buctril + MCPA Ester	0.75-1.5 pt/A + 0.5-0.75 pt/A	С	С	С	С	С	С	С			
Chiptox® MCPA	1-1.5 pt/A	С	С	-	-	-	-	-			
Clarity®	2-3 oz/A	С	С	PC	PC	-	С	-			
Clarity + MCPA Ester	2 oz/A + 0.5-0.75 pt /A	С	С	PC	-	-	-	-			
Colt® + Sword®	1.25 pt/A	С	С	-	-	-	С	-			
Curtail™	2-2.67 pt/A	С	С	PC	-	-	С	-			
Curtail™ M	1.75 pt/A	С	С	С	С	-	С	-			
Deadbolt™ Broadleaf Herbicide	12.8 fl oz/A	С	С	-	-	-	-	-			
Double Up® B+D	0.75-1 pt/A	С	С	-	-	-	-	-			

Express® <sup>A</sup>	0.25-0.5 oz/A	С	С	PC		-	С	-
Finesse® <sup>A</sup>	0.2-0.4 oz/A	С	С	PC	PC	-	С	-
Glean® XP <sup>A</sup>	0.17- 0.33 oz/A	С	С	PC	-	-	С	-
Harmony® Extra SG <sup>A</sup>	0.45-0.9 oz/A	С	С	PC	PC	_	С	-
Harmony Extra SG <sup>A</sup> + Bronate Advanced	0.45-0.9 oz/A + 0.6-1.2 pt/A	PC	PC	-	-	-	-	-
Harmony Extra SG <sup>A</sup> + Buctril	0.45-0.9 oz/A + 0.75-1.5 pt/A	С	С	-	-	-	-	-
Harmony Extra SG <sup>A</sup> + MCPA Amine	0.45-0.9 oz/A + 0.5-0.75 pt/A	PC	PC	-	-	-	-	-
Harmony Extra SG <sup>A</sup> + MCPA Ester	0.45-0.9 oz/A + 0.5-0.75 pt/A	С	С	-	-	-	-	-
Harmony® SG <sup>A</sup>	0.45-0.9 oz/A	С	С	С	PC	С	С	С
Harmony SG <sup>A</sup> + Buctril	0.45-0.9 oz/A + 0.75-1.5 pt/A	С	С	PC	-	-	-	-
Harmony SG <sup>A</sup> + MCPA Amine	0.45 oz/A + 0.5-0.75 pt/A	С	С	PC	-	-	-	-
Harmony <sup>sga</sup> + MCPA Ester	0.45-0.9 oz/A + 0.5-0.75 pt/A	С	С	PC	PC	-	С	-
Hat Trick® Three Way	1.5 pt/A	С	С	С	С	С	С	С
Maestro™ D	0.75-1 pt/A	С	С	-	-	- 1	-	-
MCPA Amine	0.5-0.75 pt/A	С	С	PC	PC	- 1	С	-
MCPA Ester	0.5-0.75 pt/A	С	С	С	С	С	С	С
Peak® <sup>A</sup>	0.25-0.5 oz/A	С	С	С	С	С	С	С
Peak <sup>A</sup> + Bronate Advanced	0.25-0.5 oz/A + 0.6-1.2 pt/A	С	С	-	-	-	-	-
Peak <sup>a</sup> + Buctril	0.25-0.5 oz/A + 0.75-1.5 pt/A	С	С	-	-	-	-	-

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Peak <sup>A</sup> + Chiptox MCPA	0.25-0.5 oz/A + 1-1.5 pt/A	С	С	-	-	-	-	-
Peak <sup>a</sup> + Curtail M	0.25-0.5 oz/A + 1.75 pt /A	С	с	PC	-	-	-	-
Peak <sup>a</sup> + MCPA Amine	0.25-0.5 oz/A + 0.5-0.75 pt/A	С	С	PC	PC	-	-	-
Peak <sup>A</sup> + MCPA Ester	0.25-0.5 oz/A + 0.5-0.75 pt/A	С	С	С	-	-	С	-
Rhino™	16 fl oz/A	С	С	-	-	-	-	-
Starane	0.5-0.67 pt/A	С	С	С	PC	-	С	-
Starane + Bronate Advanced	0.5-0.67 pt/A + 0.6-1.2 pt/A	С	С	С	PC	-	-	-
Starane + Curtail M	0.5-0.67 pt/A + 1.75 pt/A	С	С	С	PC	-	-	-
Starane + Harmony Extra SG <sup>A</sup>	0.5-0.67 pt/A + 0.45 oz/A	С	С	PC	-	-	-	-
Starane + Harmony SG <sup>A</sup>	0.5-0.67 pt/A + 0.45-0.9 oz/A	С	С	С	-	-	-	-
Starane + Peak <sup>a</sup>	0.5-0.67 pt/A + 0.25-0.5 oz/A	С	С	-	-	-	-	-
Starane + Sword®	1.5 pt/A	С	С	-	-	- 3	С	-
Starane + Sword + Harmony SG <sup>A</sup>	1.5 pt/A + 0.45- 0.9 oz/A	С	С	-	-	-	-	-
Starane + Sword + Peak <sup>A</sup>	1.5 pt/A + 0.25- 0.5 oz/A	С	С	-	-	-	-	-
Stinger	0.25- 0.33 pt/A	С	С	С	-	-	С	-
TrumpCard™	1.25- 1.33 pt/A	С	С	-	-	-	-	-
WECO MAX™	16 fl oz/A	С	С	-	-	-	-	-
WideMatch™	1 pt/A	С	С	С	С	С	С	С

WideMatch + Harmony® SG <sup>A</sup>	1 pt/A + 0.45 oz/A	с	С	с	с	С	С	С
WideMatch + MCPA ester	1 pt/A + 0.5-0.75 pt/A	С	С	С	С	С	С	С
			TANK-	MIX USE DI	RECTIONS			
<ul> <li>considered</li> <li>For control specific we broadleaf h the table a</li> <li>Other prod the broadle</li> <li><sup>A</sup>Addition c</li> <li>For 2,4 D-4</li> <li>For MCPA</li> <li>Use Expres</li> <li>Herbicides recommen Herbicide f</li> </ul>	acceptable of annual g eds controlle nerbicide cor re not recorr ucts that cor eaf herbicide of surfactants Amine, assu amine and ss Herbicide not approve dations mad	for comme rasses liste ed), use D mbinations mended. ntain equive tank-mix s is not req ime 3.8 lb <b>MCPA es</b> le with Tot ed for tank le by Syng w at least 4	("Partial Contro ercial weed con ed in the table a iscover NG Her presented abo valent active ing partner listed in juired. ae/gal product. <b>ter</b> , assume 3.7 alSol® soluble mixing on this l enta may be ap 4 days after app	atrol). above and b rbicide at 12 ve. Broadle predient(s) a this table n 7 Ib ae/gal p granules. Discover No oplied seque	oroadleaf we 2.8 fl oz/A p eaf herbicid and used at nay be used product. G Herbicide entially. For	eeds (refer to lus <b>only one</b> e combination the same act d. label, or othe r optimum res	tank mix pa of the single ns other than ive ingredien er Syngenta sults, apply E	rtner label for or two-way those listed in trate(s) as labeling or Discover NG
• Temporary			with tank mixe equate or abnor TANK-MI	mally high i		els or extrem		
Herbicide. 2) It is the pes	sticide user's	responsib	<b>n 8.1.1</b> for Disc ility to ensure th nd limitations ar	over NG He nat all produ	rbicide solo cts are regis	apply to tank	intended use	e. Read and

follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

### 8.1.3 TANK MIX COMBINATIONS WITH BROADLEAF HERBICIDES WITH DISCOVER NG HERBICIDE AT 16 FL OZ/A

		Weeds Controlled by Discover NG Herbicide Applied at 16 fl oz/A									
Broadleaf Herbicide	Rate	Wild Oat	Volunteer Oat	Green Foxtail	Yellow Foxtail	Giant Foxtail	Barnyard -grass	Canary -grass	Persian Darnel	Volunteer Corn	Italian Ryegrass
2,4-D Amine	0.5- 0.75 pt/A	С	С	С	С	-	-	С	-	-	-

AffinityTank Mix <sup>a</sup> + MCPA Ester	0.6 oz/A + 0.5- 0.75 pt/A	С	С	-	-	-	-	-	-	-	-
Affinity TankMix <sup>a</sup> + Starane	0.6 oz/A + 0.33- 0.67 pt/A	С	С	-	-	-	-	-	-	-	-
Ally Extra SG <sup>A</sup>	0.3- 0.5 oz/A	С	С	С	PC	-	-	с	-	-	-
Ally XP <sup>A</sup>	0.1 oz/A	С	С	С	PC	-	-	С	-	-	-
Amber <sup>A</sup>	0.28- 0.47 oz/A	С	С	С	PC	-	-	С	-	-	-
Banvel	2-3 oz/A	С	С	С	С	-	-	С	-	-	-
Banvel+ MCPA Ester	2 oz/A + 0.5- 0.75 pt/A	С	С	PC	-	-	-	-	-	-	-
Banvel SGF	4-6 oz/A	С	С	С	С	-	-	С	-	-	-
Bronate Advanced	0.8- 1.2 pt/A	С	С	С	С	С	С	С	С	С	С
Buctril	0.75- 1.5 pt/A	С	С	С	С	С	С	С	С	С	С
Buctril + MCPA Ester	0.75- 1.5 pt/A + 0.5-0. 75 pt/A	С	С	С	С	С	С	С	С	С	С
Chiptox MCPA	1-1.5 pt/A	С	С	°-	-	-	-	-	-	-	-
Clarity	2-3 oz/A	С	С	С	С	-	-	С	-	-	-
Clarity + MCPA Ester	2 oz/A + 0.5- 0.75 pt /A	С	С	PC	-	-	-	-	-	-	-
Colt + Sword	1.25 pt/A	С	С	С	-	-	-	С	-	-	-
Curtail	2-2.67 pt/A	С	С	С	PC	-	-	С	-	-	-
Curtail + Harmony SG <sup>A</sup>	2-2.67 pt/A + 0.45- 0.9 oz/A	С	С	-	-	-	-	-	-	-	-
Curtail M	1.75 pt/A	С	С	С	С	-	-	С	-	-	-

Deadbolt											
Broadleaf Herbicide	12.8 fl oz/A	С	С	-	-	-	-	-	-	-	-
Double Up B+D	0.75-1 pt/A	С	С	×-	-	-	-	-	-	-	-
Express <sup>A</sup>	0.25- 0.5 oz/A	С	С	С	PC	-	-	С	-	-	-
Finesse <sup>A</sup>	0.2- 0.4 oz/A	С	С	С	PC	-	-	С	-	-	-
Glean XP <sup>A</sup>	0.17- 0.33 oz/A	С	С	С	PC	-	-	С	-	-	-
Harmony Extra SG <sup>A</sup>	0.45- 0.9 oz/A	С	С	С	PC	-	-	С	-	-	-
Harmony Extra SG <sup>A</sup> + Bronate Advanced	0.45- 0.9 oz/A + 0.6-1. 2 pt/A	PC	PC	-	-	-	-	-	-	-	-
Harmony Extra SG <sup>A</sup> + Buctril	0.45- 0.9 oz/A + 0.75- 1.5 pt/A	С	С	-	-	-	-	-	-	-	-
Harmony Extra SG <sup>A</sup> + MCPA Amine	0.45- 0.9 oz/A + 0.5-0. 75 pt/A	С	С	-	-	-	-	-	-	-	-
Harmony Extra SG + MCPA Ester	0.45- 0.9 oz/A + 0.5-0. 75 pt/A	С	С	-	-	-	-	С	-	-	-
Harmony® SG <sup>A</sup>	0.45- 0.9 oz/A	С	С	С	С	С	С	С	С	С	С
Harmony SG <sup>A</sup> + Buctril	0.45- 0.9 oz/A + 0.75- 1.5 pt/A	С	С	PC	-	-	-	-	-	-	-
Harmony SG <sup>A</sup> + Bronate Advanced	0.45- 0.75 oz/A + 0.6 pt/A	С	С	-	-	_	-	-	_	-	-

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Harmony SG <sup>A</sup> + MCPA Amine	0.45- 0.9 oz/A + 0.5- 0.75 pt/A	С	С	PC	-	-	-	-	-	-	-
Harmony SG <sup>A</sup> + MCPA Ester	0.45- 0.9 oz/A + 0.5-0. 75 pt/A	С	С	С	PC	-	-	С	-	-	-
Maestro D	0.75-1 pt/A	С	С	-	-	-	-	-	-	-	-
MCPA Amine	0.5- 0.75 pt/A	С	С	С	PC	-	-	С	-	-	-
MCPA Ester	0.5- 0.75 pt/A	С	С	с	с	С	С	с	С	С	с
Peak <sup>A</sup>	0.25- 0.5 oz/A	С	С	с	с	с	С	с	С	С	С
Peak <sup>A</sup> + Bronate Advanced	0.25- 0.5 oz/A + 0.6- 1.2 pt/A	С	С	С	-	-	-	-	-	-	-
Peak <sup>a</sup> + Buctril	0.25- 0.5 oz/A + 0.75- 1.5 pt/A	С	С	С	-	-	-	-	-	-	-
Peak <sup>A</sup> + Chiptox MCPA	0.25- 0.5 oz/A + 1-1.5 pt/A	С	С	-	-	-	-	-	-	-	-
Peak <sup>a</sup> + Curtail M	0.25- 0.5 oz/A + 1.75 pt /A	С	С	PC	-	-	-	-	-	-	-
Peak <sup>A</sup> + MCPA Amine	0.25- 0.5 oz/A + 0.5- 0.75 pt/A	С	С	С	PC	-	-	-	-	-	-
Peak <sup>a</sup> + MCPA Ester	0.25- 0.5 oz/A + 0.5- 0.75 pt/A	С	С	С	-	-	-	с	-	-	-

Rhino	16 fl oz/A	С	С	-	-	-	-	-	-	-	-
Starane	0.5- 0.67 pt/A	С	С	С	-	-	-	С	-	-	-
Starane + Bronate Advanced	0.5- 0.67 pt/A + 0.6- 1.2 pt/A	С	С	С	С	-	-	-	-	-	-
Starane + Curtail	0.5- 0.67 pt/A + 2-2.67 pt/A	PC	PC	-	-	-	-	-	-	-	-
Starane + Curtail M	0.5- 0.67 pt/A + 1.75 pt/A	С	С	С	PC	-	-	-	-	-	-
Starane + Harmony Extra SG <sup>A</sup>	0.5- 0.67 pt/A + 0.45- 0.6 oz/A	С	С	PC	-	-	-	-	-	-	_
Starane + Harmony SG <sup>A</sup>	0.5- 0.67 pt/A + 0.45- 0.9 oz/A	С	С	С	-	-	-	-	-	-	-
Starane + Peak <sup>A</sup>	0.5- 0.67 pt/A + 0.25- 0.5 oz/A	С	С	С	-	-	-	-	-	-	-
Starane + Sword	1.5 pt/A	С	С	С	-	-	-	с	-	-	-
Starane + Sword + Harmony SG <sup>A</sup>	1.5 pt/A + 0.45- 0.9 oz/A	С	С	-	-	-	-	-	-	-	-
Starane + Sword + Peak <sup>A</sup>	1.5 pt/A + 0.25- 0.5 oz/A	С	С	С	-	-	-	-	-	-	-
Stinger	0.25- 0.33 pt/A	С	С	с	-	-	-	с	-	-	-
WECO MAX	16 fl oz/A	С	С	-	-	-	-	-	-	-	-
WideMatch	1 pt/A	С	С	С	С	С	С	С	С	С	С

	T								1		
WideMatch + Harmony SG <sup>A</sup>	1 pt/A + 0.45 oz/A	С	С	С	с	с	с	с	С	С	С
WideMatch + MCPA ester	1 pt/A + 0.5- 0.75 pt/A	С	С	С	С	С	С	С	С	С	С
	TANK-MIX USE DIRECTIONS										
<ul> <li>For contr weeds co combinat recomme</li> <li>Other pr herbicid</li> <li>^Additio</li> <li>For 2,4-</li> <li>For MCI</li> <li>Use Exp</li> <li>Herbicid recomm first and</li> </ul>	ol of annu ontrolled), tions prese ended. roducts that e tank-mix n of surfac <b>D Amine,</b> <b>PA amine</b> <b>Dress Her</b> les not ap iendations	al grasse use Disc ented abo at contain partner ctants is r assume and MC bicide wi proved fo made by	over NG He ove. Broad listed in this not required 3.8 lb ae/ga <b>PA ester,</b> a th TotalSol r tank mixir Syngenta	he table a erbicide a leaf herbid active in stable ma l. al product issume 3. ® soluble ing on this may be a	t 16 fl oz/ cide coml gredient(s ay be use  7 lb ae/g granules Discover pplied se	A plus <b>only</b> binations of d. al product. S. NG Herbic quentially.	weeds (refe <b>one</b> of the her than the l at the sam ide label, o For optimu cide before	single or ose listed le active i r other Sy m results	two-way t in the tab ngredient /ngenta lal , apply Dis	proadleaf he le are not rate(s) as th rate(s) as the rate of the second	he broadleaf Herbicide
Precaution:											
• Temporary crop injury may occur with tank mixes under extreme weather conditions or when the crop is suffering from stress due to inadequate or abnormally high moisture levels or extreme temperatures.											
2) It is the p	,										

### 8.1.4 TANK MIX COMBINATIONS OF DISCOVER NG HERBICIDE WITH FUNGICIDES AND INSECTICIDES

the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Application	Tank-Mix Brands	Use Directions
Annual grass and disease control.	Tilt® Fungicide	Apply Discover NG Herbicide at 12.8-16 fl oz/A with Tilt Fungicide at labeled use rates.
		Refer to the Tilt Fungicide label for a list of diseases controlled.
Annual grass control and early season disease suppression	Quilt® Fungicide	Apply Discover NG Herbicide at 12.8-16 fl oz/A with Quilt Fungicide at 7 fl oz/A.
		Refer to the Quilt Fungicide label for a list of diseases suppressed and/or controlled.
		<b>Note:</b> Under certain environmental conditions, tank mixes of Quilt Fungicide plus herbicides may cause crop injury.

Annual grass and insect control.	Warrior II with Zeon Technology®	Apply Discover NG Herbicide at 12.8-16 fl oz/A with Warrior II with Zeon Technology at labeled use rates. Refer to the Warrior II with Zeon Technology label for a list of insects controlled.					
TANK-MIX USE RESTRICTIONS							
1) All use restrictions cited in <b>Section 8.1.1</b> for Discover NG Herbicide solo apply to tank-mixes with							

Discover NG Herbicide.
2) It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in the meet matrix directions for use on all product labels involved in

and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

### 8.1.5 TANK MIX COMBINATIONS OF DISCOVER NG HERBICIDE WITH LIQUID NITROGEN FERTILIZER

- Discover NG Herbicide may be mixed in a spray solution containing up to 50% liquid nitrogen fertilizer.
- Add Discover NG Herbicide to the water first. Mix thoroughly, then add the liquid nitrogen fertilizer.
- Assure that the amount of liquid nitrogen fertilizer does not exceed 50% of the final volume of the solution.
- **Precaution:** Under certain environmental conditions, mixtures of liquid nitrogen fertilizers as a partial carrier may cause crop burn.
- All restrictions from **8.1.1** to **8.1.3** apply.

# 9.0 STORAGE AND DISPOSAL

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Do not use in animal feeds.

#### Pesticide Storage

Store in a cool, dry place.

#### **Pesticide Disposal**

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

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

**Non-refillable container.** Do not reuse or refill this container. Triple rinse (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 <sup>1</sup>/<sub>4</sub> 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]

**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 ¼ 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]

**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 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.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during

cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

# **10.0** CONDITIONS OF SALE AND LIMITATIONS 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, 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.

# **11.0** APPENDIX

## 11.1 Discover NG Herbicide Use Summary Table

**IMPORTANT:** The table below is a summary of the Crop Use Directions for Discover NG Herbicide. However, it is important for the user to read and follow the complete instructions contained within this label.

Crop or Crop Group or Subgroup with examples	Maximum Rate per Application (fl oz/A)	Minimum Application Interval (days)	Pre-Harvest Interval (PHI days)	Maximum Rate per Year (pt/A)
Wheat (including Durum)	16	NA	Forage: 30 days Hay: 30 days Grain: 60 days	16

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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

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