4/3/2009





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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCE

Cheryl Wagner Agent for Sharda USA LLC c/o Wagner Regulatory Associates, Inc. P.O. Box 640 Hockessin, DE 19707

APR 3 2009

Subject: Notification(s) for Label Revisions under PRN 2007-4 and 98-10

- 1. Alternate Brand Name: Diquat Dibromide 37.3% SL AG
- 2. Removal of bilingual label language

Dear Ms. Wagner:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notices (PRN) 2007-4 and 98-10 dated March 9, 2009 for:

## **EPA Registration 83529-13**

## Diquash Ag Desiccant and Herbicide

The Registration Division (RD) has conducted a review of the request(s) for applicability under 2007-4 and 98-10 and finds that the label changes requested fall within the scope of 2007-4 and 98-10. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identify the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

Linda Arrington

Notifications & Minor Formulations Team Leader Registration Division (7505P)

Registration Division (7505P)

Office of Pesticide Programs

Pleast, read instructions on revers	e before completing form	n.	Form	n Approv	ved. OMB No. 2	2070-006	60. Approval expi	res 05-31-98
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1. Company/Product Number			2. EPA Product			3. P	roposed Classif	ication
83529-13			Joanne Miller					
4. Company/Product (Name)			PM#				Nama	D4
DIQUASH Ag Desiccant & Her	bicide (Alternate Bran	nd Name for	23				None	Restricted
Diquat Dibromide 37.3% SL A	G)							
5. Name and Address of Appl	icant (Include Zip Cod	de)	6. Expedited Re					
Sharda USA LLC			(b)(l), my product to:	t is simi	ilar or identica	l in con	nposition and lat	eling
c/o Wagner Regulatory As	sociates, Inc.				NOTIFIC	ATIO	A PA. II	
P.O. Box 640 Hockessin, DE 19707								
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Amendment - Explain be	low.		Final printe		s in response to			
Resubmission in respons	e to Agency letter dated		"Me Too" A					
Notification - Explain belo	ow. Remove Spanish La	anguage	Other - Ex	plain bel	low.			
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Notifications per PR Notices 9	5-10 and 2007-4-5e		tion - III	nents.				
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Name CHERYL WAGNER	Title		narda USA LLC		(302) 23	4 8551	· <u>υ</u>	Jue <i>)</i>
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This is a reproduction of EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

5. Date

March 10, 2009

4. Typed Name

CHERYL WAGNER

## Section II. Notification Certification

Notification of label change per PR Notice 2007-4. This notification is consistent with the provisions of PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes hav been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statements to EPA. I further understand that if the amended label is not consisten with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFF and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

0/0

March 9, 2009



Wagner Regulatory Associates, Inc. P.O. Box 640 7460 Lancaster Pike, Suite 9 Hockessin, Delaware 19707

Document Processing Desk (NOTIF)
Attn: Ms. Joanne Miller, PM 23
Registration Division (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Dear Ms. Miller:

Re: DIQUASH Ag Desiccant and Herbicide

Alternate Brand Name for Diquat Dibromide 37.3% SL AG

EPA Registration Number 83529-13

Notification of Removal of Bilingual Label Language

Revised Storage and Disposal Statements Per PR Notice 2007-4

On behalf of Sharda USA LLC, I am submitting this notification to delete the word CUIDADO immediately after the signal word, and the Spanish next immediately underneath it. PR Notice 98-10 states that bilingual language can be added without notification; however, it does not state whether it can be removed without notification. The change is being made because California DPR requests that Sharda either change the wording or remove it. Sharda elects to remove it. California DPR requires that this be done via Notification to the EPA. I am also Notifying the Agency that the Storage and Disposal section of the label has been revised according to PR Notice 2007-4. In support of this notification I have enclosed the following:

- EPA Form 8570-1 with the respective Certification Statements
- 2 copies of the final printed label for DIQUASH Ag Desiccant and Herbicide

If you have any questions concerning this submission, please contact the undersigned.

Sincerely,

Cheryl Wagner

Agent for Sharda USA LLC

Enc.



# DIQUASH™ Ag

## Desiccant and Herbicide

TO PREVENT ACCIDENTAL POISONING, NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS AND USE STRICTLY IN ACCORDANCE WITH ENTIRE LABEL. DO NOT USE THIS PRODUCT FOR REFORMULATION

Active Ingredient:

Contains 2 lbs. diquat cation per gal. as 3.73 lbs. salt per gal.

See additional precautionary statements and directions for use in attached booklet.

#### AGRICULTURAL USE REQUIREMENTS

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.

EPA Reg. No. 83529-13 EPA Est. No. 37429-GA-01

Net Contents: 2.5 Gallons

Manufactured for:

## Sharda USA LLC



7460 Lancaster Pike, Suite 9 Hockessin, DE 19707



83529-13-B-21308

# KEEP OUT OF REACH OF CHILDREN **CAUTION**

Precautionary Statements
Hazard to Humans and Domestic Animals
CAUTION

Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes or clothing.

#### FIRST AID:

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment, NOTE TO PHYSICIAN: To be effective, treatment for diquat poisoning must begin IMMEDIATELY. Treatment consists of binding diquat in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination, and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

#### **EMERGENCY NUMBERS**

For 24-hour medical emergency assistance (human or animal) call 1-800-222-1222. For chemical emergency assistance (spill, leak, fire, or accident) call CHEMTREC at 1-800-424-9300. Environmental Hazards: This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters rinseate.

#### STORAGE AND DISPOSAL

Prohibitions: Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment. Open dumping is prohibited. Pesticide Storage: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not contaminate feed, foodstuffs, or drinking water. Do not store or transport near feed or food. Store at temperatures above 32°F. Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinseate 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 at the nearest EPA regional office for guidance. Container Disposal: Do refill or reuse container. Triple rinse as follows: Empty the remaining contents into application equipment or a mixt tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by 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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NOTIFICATION

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## PRECAUTIONARY STATEMENTS

## Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if inhaled. Harmful if swallowed Causes moderate eye irritation.

Avoid breathing spray mist. Avoid contact with eyes or clothing.

Personal Protective Equipment (PPE): Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical-resistance category selection chart.

## Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants.
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.
- Chemical-resistant apron when cleaning equipment, mixing, or loading.

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

## **Engineering Controls**

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4). When using the closed system, the mixers'and loaders' PPE requirements may be reduced or modified as specified in the WPS. 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. Prolonged contact of the product with the skin may produce burns. Remove PPÉ 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 aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water rinseate. Page 2 of 10

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## **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 SHARDA USA LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SHARDA USA LLC and Seller harmless for any claims relating to such factors.

SHARDA USA LLC 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. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SHARDA USA LLC, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SHARDA USA LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, in no event shall SHARDA USA LLC or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SHARDA USA LLC 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 SHARDA USA LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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

## **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.

READ ENTIRE LABEL USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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#### DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

## **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 24 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 over long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Chemical-resistant footwear plus socks
- Protective eyewear
- · Chemical-resistant headgear for overhead exposure

#### 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 all unprotected persons out of operating areas or vicinity where there may be drift. **Do not allow people or pets to touch treated plants until the sprays have dried.** Do not allow entry of maintenance workers into treated areas, or allow contact with treated vegetation wet with spray, dew, or rain, without appropriate protective clothing until spray has dried.

## STORAGE AND DISPOSAL

## **Prohibitions**

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment. Open dumping is prohibited.

Pesticide Storage: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not contaminate feed, foodstuffs, or drinking water. Do not store or transport near feed or food. Store at temperatures above 32°F. Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinseate 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 at the nearest EPA regional office for guidance. Container Disposal: Nonrefillable container. Do not refill or reuse container. 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 1/4 full with water and recap. Shake for 10 seconds.

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Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds afte the flow begins to drip. Repeat this procedure two more times. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and local authorities. If burned, stay out of smoke.

## CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER

## **GENERAL PRODUCT INFORMATION**

DIQUASH Ag is a nonvolatile herbicide for use as a preharvest aid to desiccate certain crops in order to facilitate harvesting. DIQUASH Ag is used as a general herbicide to control weeds in noncrop areas and nonbearing crops. DIQUASH Ag is a contact-type herbicide and requires actively growing green plant tissue to function. Thorough coverage of all green plant tissue is essential for effective control. DIQUASH Ag is rapidly absorbed by green plant tissue and interacts with the phytosynthetic process to produce compounds which destroy plant cells. Herbicidal activity is usually quite rapid with effects visible in a few days.

## **AGRICULTURAL USE DIRECTIONS**

## **APPLICATION**

Since DIQUASH Ag is a contact-type herbicide, it is essential to obtain complete coverage of the target weed or crop to achieve effective results. Improper application technique and/or application to large, stressed, or mowed weeds will generally result in unacceptable control. Complete coverage is also essential for effective performance in harvest aid applications. See details below for additional information.

#### **Nozzle Selection**

The use of flat fan nozzles will result in the most effective application of DIQUASH Ag. The use of nozzles other than flat fans may result in reduced performance due to inadequate coverage.

## **Spray Volume**

Follow minimum spray volumes listed for each use of DIQUASH Ag. These are minimum volumes only, and spray volumes should be increased as necessary to obtain complete coverage of the target weed or plant without runoff from the foliage. When spraying less than 20 gals, of spray carrier per acre, target weeds should not exceed 6 inches in height.

## **SPRAY ADJUVANTS**

Always Add One of the Following:

#### Nonionic Surfactant (NIS)

Add a NIS containing 75% or greater surface active agent at 0.06-0.5% v/v (1/2-4 pts. per 100 gals.) of the finished spray volume.

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## **Other Adjuvants**

Adjuvants other than NIS may be used providing the product meets the following criteria:

- · Contains only EPA exempt ingredients.
- Is compatible in mixture. Compatibility may be established through a jar test.
- Is supported locally for use with DIQUASH Ag through proven field trials and through university and extension recommendations.

## **RATES**

Follow rates listed with each use of DIQUASH Ag. Use the higher label rates when weeds are large or dense. Also, use higher labeled rates for harvest aid when crop vegetation is dense.

#### **APPLICATION TIMING**

**DIQUASH Ag should be applied to emerged weeds when they are small. Weeds 1 inch to 6 inches in height are the easiest to control.** When weeds have been grazed or mowed, thus removing much of the green foliage, allow the weeds to regrow to a height of 2-4 inches before spraying. For proper application timing of harvest aid applications, refer to each crop for recommendations. Weeds emerging after application of DIQUASH Ag will not be controlled or suppressed.

## RAINFASTNESS

Because DIQUASH Ag is rapidly absorbed by green plant tissue, rain occurring 30 minutes after application will have no effect on the activity of DIQUASH Ag.

#### **ENVIRONMENTAL CONDITIONS**

DIQUASH Ag is active over a wide range of environmental conditions. Cool weather (below 55°F) will slow the activity of DIQUASH Ag, as will cloudy, overcast weather, but will not affect performance.

In dry areas, dust stirred up by high winds or equipment tires can coat target surface and reduce DIQUASH Ag activity. Avoid applying DIQUASH Ag in extremely dusty conditions.

#### **SPRAY DRIFT MANAGEMENT**

# AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER.

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations.

- 1) The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- 2) Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

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## **Droplet Size**

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (See Wind, Temperature and Humidity, and Temperature Inversions).

## **Controlling Droplet Size:**

**Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

**Pressure** - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces large droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles - Use the minimum number of nozzles that provide uniform coverage.

**Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

## **Boom Length**

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

## **Application Height**

Applications should not be made at a height greater than 10 ft. above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

## **Swath Adjustment**

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

#### Wind

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

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## **Temperature and Humidity**

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

## **Temperature Inversions**

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified 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.

#### **Sensitive Areas**

The pesticide should only be applied when the wind is blowing away from adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, and nontarget crops).

#### SPECIFIC USE DIRECTIONS

The following table indicates use pattern, rates, minimum spray volumes, and preharvest interval for specific uses.

Crop	Use Pattern	DIQUASH Ag Rate Per Acre	Minimum Total Spray Volume Per Acre	Preharvest Interval (Days)	Precautions, Restrictions and Comments
Alfalfa (seed crop only)	Preharvest desiccation broadcast	1 1/2-2pts. (see precautions section for additional rate information)	Ground: 15 gal. Air: 5 gal.	3	<ul> <li>On thin stands of seed alfalfa use 1 pt. per acre.</li> <li>Desiccation is complete in 3-10 days.</li> <li>Do not graze or feed treated forage to livestock.</li> <li>Do not use seed from treated plants for food, feed, or oil purposes.</li> </ul>
Clover (seed crop only)	Preharvest desicction broadcast	1 1/2-2 pts.	Ground: 15 gal. Air: 5 gal.	3	<ul> <li>Desiccation is complete in 3-10 days.</li> <li>Do not graze or feed treated forage to livestock.</li> <li>Do not use seed from treated plants for food, feed, or oil purposes.</li> </ul>

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Crop	Use Pattern	DIQUASH Ag Rate Per Acre	Minimum Total Spray Volume Per Acre	Preharvest Interval (Days)	Precautions, Restrictions and Comments
Potato	Preharvest desiccation broadcast	1-2 pts.	Ground: 20 gal. Air: 5 gal.	7	<ul> <li>Do not apply to drought stressed potatoes.</li> <li>Make a second application if necessary to obtain additional desiccation where vine growth is dense. For improved vine coverage, a 5 day interval is recommended between applications.</li> <li>Do not exceed a total of 4 pts. per acre.</li> </ul>
Sorghum, Grain (seed crop only)	Preharvest desiccation broadcast	1 1/2-2 pts.	Ground: 15 gal. Air: 5 gal.	-	<ul> <li>Apply within 1-2 weeks of harvest and when seeds have not more than 30% moisture.</li> <li>Do not graze or feed treated forage to livestock.</li> <li>Do not use seed from treated plants for food, feed, or oil purposes.</li> </ul>
Soybean (seed crop only)	Prehavest- desiccation broadcast	11/2-2 pts.	Ground: 15 gal. Air: 5 gal.	-	<ul> <li>Apply one week before harvest.</li> <li>Do not graze or feed treated forage to livestock.</li> <li>Do not use seed from treated plants for food, feed, or oil purposes.</li> </ul>

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## The following table indicates the use pattern and rates for noncrop or nonplanted areas.

Other Uses	Use Pattern	DIQUASH Ag Rate	Recommendations, Precautions, and Restrictions
Noncrop or Nonplanted Areas on Farms  Fence Lines, Farmyards, Farm Buildings, Fuel Storage Areas, Barrier Strips, Equipment Areas, and Dry (non-flooded) Areas around ponds, lakes, and drainage ditches on farms	Broadcast  Spot  Treatment	1-2 pts. in a minimum of 15 gals. water per acre  1-2 qts. plus the labeled rate of a 75% or greater nonionic surfactant per 100 Gals. water or 0.75 oz. (22 ml) plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water	<ul> <li>Apply for full coverage and thorough weed contact.</li> <li>Retreatment may be necessary to control grasses and established weeds.</li> <li>Avoid spray contact with foliage of food crops or ornamental plants or other desirable vegetation.</li> <li>Add the labeled rate of 75% or greater nonionic surfactant to the finished spray volume.</li> </ul>

## **LIMITATIONS AND PRECAUTIONS**

Direct spray contact or drift of DIQUASH Ag will cause severe plant injury or death. Avoid contact of desirable vegetation. Weeds emerging after application of DIQUASH Ag will not be controlled or suppressed. Retreatment may be necessary to control large weeds or established weeds. Use of dirty or muddy water for DIQUASH Ag dilution may result in reduced control. Do not apply this product through any type of irrigation system. Rinse all spray equipment thoroughly with water after use.

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