

83979-2

07/13/2009

1/23
Jacket



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number: 83979-2
Date of Issuance: JUL 13 2009

NOTICE OF PESTICIDE:
 Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance: Conditional
Name of Pesticide Product: Rotam Diquat Ag

Name and Address of Registrant (include ZIP Code):
Rotam North America, Inc.
Suite 105
660 Newtown-Yardley Road
Newtown, PA 18940

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- 1) Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
- 2) Add the phrase "EPA Reg. No. 83979-2" to the labeling. Assure that the EPA Establishment Number and Net Contents are also on the label.
- 3) Reorder the statement in the First Aid box on page 2 and page 19. The statements should be in the following order
If Inhaled.....
If swallowed.....
If in eyes.....
If on skin or clothing....
- 4) Under Hazards to Human Health and Domestic Animals, change the last sentence on page 2 and page 19 from "Avoid contact with eyes or clothing." to "Avoid contact with eyes, skin, or clothing." Assure that any conflicting information is removed from the label.
- 5) Per the September 2005 Diquat Dibromide decision notice, change the restricted-entry interval (REI) in the Agricultural Use Requirements box on pages 5 and 18 from "7 days" to "24 hours". Assure that any conflicting information is removed from the label.

SEE NEXT PAGE FOR ADDITIONAL COMMENTS

Signature of Approving Official:
Joanne I. Miller
Product Manager 23
Herbicide Branch
Registration Division (7505P)

Date: JUL 13 2009

6) In the warranty section of the label on page 4, add "To the extent consistent with applicable law" to the following sentences:

a) To the fourth sentence in the first paragraph to read "To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ROTAM NORTH AMERICA, INC. and Seller harmless for any claims relating to such factors."

b) To the second sentence in the second paragraph to read "To the extent consistent with applicable law, this warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond.....".

c) To the first sentence in the third paragraph to read "To the extent consistent with applicable law, in no event shall ROTAM NORTH AMERICA, INC or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product.

7) Note: As appropriate, add a period (.) to the end of the first statement on page 5 to read "READ THE ENTIRE LABEL."

8) Under the Spray Adjuvants header in the Agricultural Use Directions section of the label on page 7, change "112" to "1/2". The statement should read "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."

9) In the Specific Use Directions chart on page 11, change "crown" to "occur" in the third bullet in the box at lower right to read "Do not allow spray to contact green stems, foliage, or fruit as injury can occur."

10) Per the cited product, correct the following typographical errors in the left column on page 12 of the label:

- a) Change "P835" to "Pears"
- b) Change "Pews" to "Pecans"
- c) Change "Runes" to "Prunes"

11) In the Livestock Consumption column on page 14 in the row for the application rate of 2 gal./surface acre, change "-1 day" to "1 day".

12) In the weed table on page 15, make the following changes:

- a) Change "2," to "2" for Elodea surface application
- b) Change "'1-2" to "1-2" for Watermilfoils for subsurface application
- c) Change "-1" to "1" for Duckweed surface application

Note: As appropriate, change the Algae reference from 6 to 5, or renumber the references at the bottom of the page to correspond to the appropriate weed species.

13) In the Storage and Disposal section on page 20, make the following edits:

a) A header is needed in the container disposal section which differentiates by size the nonrefillable containers from the bulk and mini-bulk containers. For example, an appropriate header may be "1, 2.5,.... gallon Container Disposal:....."

For the nonrefillable containers, the Container Disposal text should read:
"[Registrant to specifying the size(s) or type(s) of nonrefillable container(s) here]
Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse promptly after emptying. Then offer for recycling if available or recondition if appropriate, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke."

b) For refillable containers, the text For Bulk and Mini-Bulk Containers should read:

"For Bulk and Mini-Bulk Containers: Refillable container. Refill this container with pesticides only. Do not reuse this container for any other purpose. Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller."

14) Note: Marketing claims appearing on product labels must be substantiated. While we are not requesting additional information at this time, you must maintain data in your files supporting your marketing claims or the claims must be removed from the product labeling.

15) Note: 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.

Rotam Diquat AG

TO PREVENT ACCIDENTAL POISONING, NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS AND USE STRICTLY IN ACCORDANCE WITH ENTIRE LABEL

Active Ingredient:

Diquat dibromide [6,7-dihydrodipyrido (1,2-a:2',1'-c)

pyrazinediium dibromide].....37.3%

Other Ingredients:.....62.7%

Total: 100.0%

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

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

JUL 13 2009
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

83979-2

KEEP OUT OF REACH OF CHILDREN

CAUTION

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. 83979 -

EPA Est. No.

Manufactured for:
Rotam North America, Inc.
660 Newtown-Yardley Rd.
Newtown, PA 18940
1-866-927-6826

NET CONTENTS:

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • 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 swallowed	<ul style="list-style-type: none"> • 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 the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.</p>	
<p>HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call CHEMTREC 1-800-424-9300.</p>	

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.
- A dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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: Mixers, loaders, and applicators using closed systems who meet these requirements may wear: long-sleeved shirt and long pants; protective eyewear; waterproof gloves; shoes plus socks; and a chemical-resistant apron when mixing, loading, or cleaning equipment. If handling tasks are performed from inside an enclosed cab or aircraft with enclosed cockpits that meet these requirements handlers may wear: long-sleeved shirt, long pants, shoes, and socks for the labeling-specified PPE. All labeling-specified PPE must be immediately available for use in an emergency. All applicable requirements as specified in 40 CFR 170.240(d)(4-6) must be followed.

User Safety Precautions

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.

7/23

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 or rinsate.

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 ROTAM NORTH AMERICA, INC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ROTAM NORTH AMERICA, INC and Seller harmless for any claims relating to such factors.

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

In no event shall ROTAM NORTH AMERICA, INC or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ROTAM NORTH AMERICA, INC 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 ROTAM NORTH AMERICA, INC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

ROTAM NORTH AMERICA, INC and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ROTAM NORTH AMERICA, INC.

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.

8/23

READ ENTIRE LABEL USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS. 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 7 days.

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 enter or allow others to enter treated areas until spray has dried.

9/23

STORAGE AND DISPOSAL

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

Pesticide Disposal

Pesticide wastes are 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 at the nearest EPA regional office for guidance.

Container Disposal (Nonrefillable container): Do not reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Residue Removal: Triple rinse or pressure 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. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For Bulk and Mini-Bulk Containers

Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturers instructions.

Container Precautions

Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices.

Container Handling

After emptying, replace valve caps and tightly rebolt top hatch of tank car or truck. Follow Rotam's instructions for the return of bulk containers.

Refill only with Rotam Diquat AG. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than Rotam Diquat AG will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

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

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident,
call CHEMTREC AT 1-800-424-9300**

GENERAL PRODUCT INFORMATION

ROTAM DIQUAT AG is a nonvolatile herbicide for use as a preharvest aid to desiccate certain crops in order to facilitate harvesting. ROTAM DIQUAT AG can also be use as a general herbicide to control weeds in noncrop areas and nonbearing crops. ROTAM DIQUAT 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. ROTAM DIQUAT AG is rapidly absorbed by green plant tissue and interacts with the photosynthetic 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 ROTAM DIQUAT 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 ROTAM DIQUAT AG. The use of nozzles other than flat fans may result in reduced performance due to inadequate coverage.

Spray Volume

Follow suggested minimum spray volumes listed for each use of ROTAM DIQUAT 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 (112-4 pts. per 100 gals.) of the finished spray volume.

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 ROTAM DIQUAT AG through proven field trials and through university and extension programs.

RATES

Follow suggested rates listed with each use of ROTAM DIQUAT 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

ROTAM DIQUAT 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 specific use directions. Weeds emerging after application of ROTAM DIQUAT AG will not be controlled or suppressed.

RAINFASTNESS

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

ENVIRONMENTAL CONDITIONS

ROTAM DIQUAT AG is active over a wide range of environmental conditions. Cool weather (below 55°F) will slow the activity of ROTAM DIQUAT 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 ROTAM DIQUAT AG activity. Avoid applying ROTAM DIQUAT AG in extremely dusty conditions.

SPRAY DRIFT MANAGEMENT

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

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

Agricultural Aerial Applications

1. Follow label directions to reduce the potential for drift incidents.
2. Do not make aerial applications within or above a surface temperature inversion to avoid unreasonable adverse effects. Applicators may determine presence of an inversion by noting the presence of ground fog, light variable wind, or layering of smoke and dust.
3. Applicators must estimate the prevailing wind speed and direction in the vicinity of the application site prior to and during the application. Measuring wind speed with an anemometer, observing wind speed and direction using an aircraft smoke release system or wind sock or wind vane, or obtaining a report from a representative meteorological station are acceptable methods of estimating wind speed and direction.
4. Apply when prevailing wind speed is 3 to 10 miles/hour.
5. 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.).
6. 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.

7. Many factors, including droplet size and equipment type, determine drift potential at any given speed. Drift reduction technology or other mitigation methods should be employed to reduce drift potential.
8. The boom length must not exceed 75% of the fixed wing span and must be located at least 8 -10 inches below the trailing edge of the fixed wing; the boom length must not exceed 75% of the rotary blade.
9. Release spray at the optimum height from the aircraft for minimizing drift and maximizing deposition in the crop canopy. This height should be no more than 10 feet above the crop canopy unless necessary to ensure flight safety.
10. The boom must be shut off before the aircraft begins to climb at the edge of a field.
11. Apply with nozzles that deliver a coarse spray quality that provide sufficient coverage and control. Coarse spray quality nozzles reduce drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions. Orient nozzles so that the spray is released parallel to the airstream and produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential. Nozzles must be oriented backward and parallel to the airstreams and never pointed downward more than 45 degrees. Use the minimum number of nozzles that provide uniform coverage. Use higher flow rate nozzles to apply the highest practical spray volume and do not exceed nozzle manufacturers' recommended pressures.
12. 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).

Ground Applications

1. Follow label directions to reduce the potential for drift incidents.
2. Do not make ground applications within a surface temperature inversion when applying near an area requiring protection to avoid an unreasonable adverse effect. Applicators may determine presence of an inversion by noting the presence of ground fog, light variable wind, or layering of smoke and dust.
3. Applicators must estimate the prevailing wind speed and direction in the vicinity of the application site prior to and during the application. Measuring wind speed with an anemometer, observing wind speed and direction using a wind sock or wind vein, or obtaining a report from a local meteorological station are acceptable methods of estimating wind speed and direction.
4. Apply at the nozzle height that produces uniform coverage of the target.
5. Apply when prevailing wind speed is 3 to 10 miles/hour.
6. 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 sprayer upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).
7. 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.
8. Many factors, including droplet size and equipment type, determine drift potential at any given speed. Drift reduction technology or other mitigation methods should be employed to reduce drift potential.

13/23

9. Use nozzles which deliver a coarser spray quality (droplet size spectrum) at application according to nozzle manufacturer, ASABE, or USDA classification.
10. 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	ROTAM DIQUAT AG Rate Per Acre	Minimum Total Spray Volume Per Acre	Pre-harvest Interval (Days)	Precautions, Restrictions and Comments
Alfalfa (seed crop only)	Preharvest desiccation broadcast	1 ½ - 2 pts. (See precautions section for additional rate information)	Ground: 15 gals. Air: 5 gals.	3	<ul style="list-style-type: none"> • On thin stands of seed alfalfa, use 1 pt. per acre. • Desiccation is complete in 3-10 days. • Do not graze or feed treated forage to livestock. • Do not use seed from treated plants for food, feed, or oil purposes.
Clover (seed crop only)	Preharvest desiccation broadcast	1 ½ - 2 pts.	Ground: 15 gals. Air: 5 gals.	3	<ul style="list-style-type: none"> • Desiccation is complete in 3-10 days. • Do not graze or feed treated forage to livestock. • Do not use seed from treated plants for food, feed, or oil purposes.
Potato	Preharvest desiccation broadcast	1-2 pts.	Ground: 20 gals. Air: 5 gals.	7	<ul style="list-style-type: none"> • Do not apply to drought stressed potatoes. • Make a second application if necessary to obtain additional desiccation where vine growth is dense. For improved vine coverage, a 5-day interval between applications. • Do not exceed a total of 4 pts. per acre.

14/23

<p>Sorghum, Grain (seed crop only)</p>	<p>Preharvest desiccation broadcast</p>	<p>1 ½ - 2 pts.</p>	<p>Ground: 15 gals. Air: 5 gals.</p>		<ul style="list-style-type: none"> • Apply within 1-2 weeks of harvest and when seeds have not more than 30% moisture. • Do not graze or feed treated forage to livestock. • Do not use seed from treated plants for food, feed, or oil purposes.
<p>Soybean (seed crop only)</p>	<p>Preharvest desiccation broadcast</p>	<p>1 ½ - 2 pts.</p>	<p>Ground: 15 gals. Air: 5 gals.</p>		<ul style="list-style-type: none"> • Apply one week before harvest • Do not graze or feed treated forage to livestock. • Do not use seed from treated plants for food, feed, or oil purposes.
<p>Tree, Vin, Small Fruit Vegetable Crops - Nonbearing Acerola (west Indian Chevy) Almonds Apple Apricots Artichokes Asparagus Avocados Bananas Blackberry Blueberry Boysenberry Chenies Coffee Conifers Crabapple</p>	<p>Directed spray</p>	<p>1 1/2-2 pts.</p>	<p>Ground 15 gal.</p>	<p>Do not use for food or feed for one year after application.</p>	<ul style="list-style-type: none"> • HELM DIQUAT AG can be used during site preparation prior to planting and up to 1 year of harvest. • Retreatment may be necessary for complete control of grasses and older established weeds. • Do not allow spray to contact green stems, foliage, or fruit as injury can crown • Use a shield or wrap plant when spraying around young trees or vines. • Do not graze treated areas.

Tree, Vine, Small Fruit Vegetable Crops - Nonbearing (continued) Cranberry Dates* Dewberry Elderberry Figs Filberts Ginseng Gooseberry Grapes Grapefruit Guava Huckleberry Jojoba Kiwi Lemons Limes Loganberry Macadamia Mango Nectarines Olives Oranges Papayas Passion Fruit Peaches P835 Pews Persimmons Pistachios Plantains Plums Pomegranates Runes Raspberry Tangelos Tangerines Walnuts					
---	--	--	--	--	--

17/23

For application only to still water (i.e farm ponds, farm lakes, and farm drainage ditches) where there is minimal or no outflow to public waters.

Treated water may be used according to the following table or until such time as an approved assay (example: PAM II Spectromatic Method) shows that the water does not contain more than the designated maximum contaminant level goal (MCLG) of 0.02 mg/l. (ppm) of diquat dibromide (calculated as the cation):

Water Use Restrictions Following Application with ROTAM DIQUAT AG Desiccant (Days)

Application Rate	Drinking	Fishing and Swimming	Livestock Consumption	Spray Tank Applications* and Irrigation to Turf and Ornamentals	Spray Tank Applications** and Irrigation to Food Crops
2 gal./surface acre	3 days	0	-1 day	3 days	5 days
1 gal./surface acre	2 days	0	1 day	2 days	5 days
0.75 gal./surface acre	2 days	0	1 day	2 days	5 days
0.50 gal./surface acre	1 day	0	1 day	1 day	5 days
Spot Spray* (< 0.5 gal./surface acre)	1 day	0	1 day	1 day	5 days

* Rates refer to total surface area.

** For preparing agricultural sprays for food crops, turf or ornamentals (to prevent phytotoxicity), do not use water treated with ROTAM DIQUAT AG desiccant before the specified time periods. When the contents of more than one spray tank is necessary to complete a single aquatic application, no water holding restrictions apply between the consecutive spray tanks.

No applications are to be made in areas where commercial processing of fish, resulting in the production of fish protein concentrate or fish meal, is practiced. Before application, coordination and approval of local and/or State authorities must be obtained.

Apply ROTAM DIQUAT AG Desiccant in accordance with the following table:

Weed Species	Subsurface or Bottom Placement gals/surface acre*	Surface •gals/surface acre*
Bladderwort (<i>Utricularia</i>)	1-2	2
Coontail (<i>Ceratophyllum</i>)	2	2
Elodea (<i>Elodea</i>)	2	2,
Naiad (<i>Najas</i>)	1-2	2
Pondweeds ¹ (<i>Potamogeton</i> spp.)	2	2
Watermilfoils (<i>Myriophyllum</i> spp.)	1-2	2
Hydrilla (<i>Hydrilla</i>)	2	2
Waterlettuce ² (<i>Pistia</i>)	N	0.5-0.75
Waterhyacinth ² (<i>Eichhornia</i>)	N	0.5-0.75
Pennywort ³ (<i>Hydrocotyle</i> spp.)	N	0.5-0.75
Frog's Bit ⁴ (<i>Limnobium</i>)	N	0.5-0.75
Salvinia ² (<i>Salvinia</i>)	N	0.5-0.75
Duckweed ⁵ (<i>Lemna</i>)	N	-1
Cattails ³ (<i>Typha</i>)	N	1-2
Algae ⁶ (<i>Spirogyra</i> spp. & <i>Pithophora</i> spp.)	1-2	2

*For water less than or equal to 2 ft. in average depth of treatment area, use a maximum of 1 gallons. of ROTAM DIQUAT AG desiccant per surface acre. Lowest rates should be used in shallow areas where the water depth is considerably less than the coverage depth of the entire treatment area, for example, shallow shoreline area. At water temperatures below 50°-60°F efficacy and immediacy of results may be reduced.

1. ROTAM DIQUAT AG desiccant controls *Potamogeton* species except Richardson's pondweed (*P. richardsonii*). For control of *P. robbinsii*, applications must be made when the plants are in the early stages of growth such as in spring and early summer.
2. For salvinia, water lettuce and water hyacinth, use the labeled rate of ROTAM DIQUAT AG desiccant in 75-200 gals. water plus the labeled rate of a 75% or greater nonionic surfactant per acre for surface sprays and for aerial application for water lettuce and water hyacinth control, apply the labeled rate of ROTAM DIQUAT AG desiccant in 10-24 gals. water plus the labeled rate of a 75% or greater nonionic surfactant per acre.
3. For pennywort and cattail control, apply in 50-150 gals. of water plus the labeled rate of a 75% or greater nonionic surfactant per acre for full coverage and thorough weed contact. Repeat treatments may be necessary to control regrowth. For best results, apply before flowering (cattail).
4. For duckweed control, apply as an overall spray in 50-150 gals. of water plus the labeled rate of a 75% or greater nonionic surfactant per acre. Retreatment may be necessary for plants missed in previous applications and regrowth.
5. For suppression of certain filamentous algae species including *Spirogyra* and *Pithophora*, apply according to the submersed use directions.
6. Not for use in California.

Application

In mixed weed populations, use the high rate of application as indicated by weeds present.

Subsurface Applications

Where the submersed weed growth, especially Hydrilla, has reached the water surface, apply either in a water carrier or an invert emulsion through boom trailing hoses carrying nozzle tips to apply the dilute spray below the water surface to insure adequate coverage.

Bottom Placement

Where the submersed weeds, especially Hydrilla, Bladderwort, and Coontail growth have reached the water surface or where water is slowly moving through the submersed weed growth that has reached the water surface, especially Hydrilla, Bladderwort, and Coontail, control may be enhanced when applied in an invert emulsion carrier injecting diluted ROTAM DIQUAT AG desiccant near the bottom with weighted hoses. The addition of a copper-based algaecide will improve control. Where algae are present along with the submersed weeds, pretreatment with copper-based algaecide at recommended rates is advised for best results.

Surface Application

For submerged aquatic weeds, apply ROTAM DIQUAT AG desiccant either as concentrate slowly poured directly from the container in strips or as a spray in sufficient carrier. Applications should be made to ensure complete coverage of the weed areas. In mixed weed populations, use the high rate of application as indicated by weeds present.

LIMITATIONS AND PRECAUTIONS (Terrestrial and Aquatic Uses)

Direct spray contact or drift of ROTAM DIQUAT AG will cause severe plant injury or death. Avoid contact of desirable vegetation.

Weeds emerging after application of ROTAM DIQUAT 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 ROTAM DIQUAT AG dilution may result in reduced control.

Application to muddy water may result in reduced control. Minimize creating muddy water during application. (Aquatic Uses)

Avoid applying under conditions of high wind, water flow, or wave action. (Aquatic Uses)

Do not apply this product through any type of irrigation system.

Rinse all spray equipment thoroughly with water after use.

[Back Booklet Label/Remains on Container when booklet is removed]

20/23

Rotam Diquat AG

TO PREVENT ACCIDENTAL POISONING, NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS AND USE STRICTLY IN ACCORDANCE WITH ENTIRE LABEL

Active Ingredient:

Diquat dibromide [6,7-dihydrodipyrido (1,2-a:2',1'-c) pyrazinediium dibromide].....	37.3%
Other Ingredients:.....	62.7%
Total:	100.0%

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

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. 83979 -

EPA Est. No.

Manufactured for:
Rotam North America, Inc.
660 Newtown-Yardley Rd.
Newtown, PA 18940
1-866-927-6826

NET CONTENTS:

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 7 days.

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

FIRST AID	
If in eye	<ul style="list-style-type: none"> • 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 swallowed	<ul style="list-style-type: none"> • 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 the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.</p>	
<p>HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call CHEMTREC 1-800-424-9300</p>	

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.

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 or rinsate.

STORAGE AND DISPOSAL

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

Pesticide Disposal

Pesticide wastes are 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 at the nearest EPA regional office for guidance.

Container Disposal (Nonrefillable container): Do not reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Residue Removal: Triple rinse or pressure 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. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For Bulk and Mini-Bulk Containers

Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturers instructions.

Container Precautions

Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices.

Container Handling

After emptying, replace valve caps and tightly rebolt top hatch of tank car or truck. Follow Rotam's instructions for the return of bulk containers.

Refill only with Rotam Diquat AG. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than Rotam Diquat AG will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

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

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident,
call CHEMTREC AT 1-800-424-9300**