

352-837

03-01-2011

1/12



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

MAR 1 2011

Tim McPherson
E. I. du Pont de Nemours and Company
1007 Market Street
Wilmington, DE 19898

Subject: Label Amendment (storage and disposal)
DuPont Realm Q Herbicide
EPA Reg. No. 352-837
Application Dated January 19, 2011

Dear Mr. McPherson:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

A stamped copy of your label is enclosed for your records. This label supersedes all previously accepted labels. You must submit one (1) copy of the final printed label before you release the product for shipment. Products shipped after eighteen (18) months from the date of this letter or the next printing of the label, whichever occurs first, must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA §6(e). Your release for shipment of the product constitutes acceptance of these conditions.

If you have any questions, please contact Mindy Ondish at (703) 605-0723 or at ondish.mindy@epa.gov.

Sincerely,

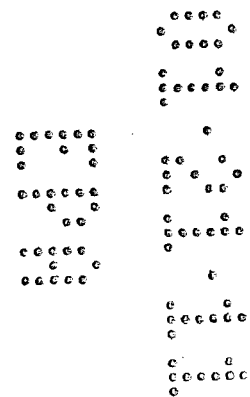
A handwritten signature in black ink, appearing to read "Kable Bo Davis".

Kable Bo Davis
Product Manager 25
Herbicide Branch
Registration Division (7504P)



DuPont™ Realm™ Q

herbicide



DUPONT™ REALM™ Q HIGHLIGHTS

- REALM™ Q provides selective postemergence grass and broadleaf weed control in field corn.
- Apply at a rate of 4 ounces product per acre.
- Include an adjuvant as recommended in this label. The use of nitrogen fertilizer is required in addition to the use of a crop oil concentrate or nonionic surfactant unless otherwise noted. See SPRAY ADJUVANT.
- REALM™ Q may be applied by ground (broadcast or band).
- For ground application, apply in a minimum of 15 gallons of water at 20-40 PSI using flat fan nozzles for best results.
- Recommended tank mixes are specified on this label. See TANK MIX APPLICATIONS.
- Apply to actively growing grass and broadleaf weeds at the recommended sizes. See RATE.
- Applications made to grasses or corn under stress may affect the performance or in some cases reduce crop tolerance.
- Consult label text for complete instructions. Always read and follow label directions for use.

TABLE OF CONTENTS

Directions for Use 2

Product Information 2

Application Information 2

 Rate 2

 Timing to crop 2

 Timing to weeds 2

 Sequential applications 3

Spray adjuvants 3

Weeds controlled 3

Tank Mixtures 4

Mixing instructions 4

Ground application 4

Restrictions/Precautions 4

 General Precautions 4

 Soil insecticide interactions 5

Rotational Crop Guidelines 5

Sprayer preparation and cleanout 5

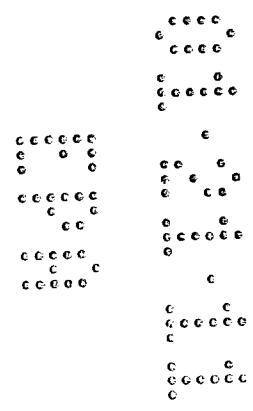
Spray drift management 6

Integrated Pest Management 6

Resistance 6

Storage and Disposal 7

Warranty 9





DuPont™

Realm™ Q

herbicide

For postemergence use in Field Corn

Active Ingredients	By Weight
Rimsulfuron	
N-((4,6-dimethoxypyrimidin-2-yl)aminocarbonyl)-3-(ethylsulfonyl)-2-pyridinesulfonamide	7.50%
Mesotrione	31.25%
Other Ingredients	61.25%
TOTAL	100.0%

EPA Reg. No. 352-837 EPA Est. No. _____

Nonrefillable Container

Net: _____

OR

Refillable Container

Net: _____

ACCEPTED

MAR 1 2011

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 352-837

KEEP OUT OF REACH OF CHILDREN

CAUTION

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 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 by a poison control center or doctor. Do not give anything to an unconscious person.

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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for emergency medical treatment information.

**PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS
AND DOMESTIC ANIMALS**

CAUTION. Causes moderate eye irritation. 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 resistant category selection chart.

Applicators and other handlers must wear:

- Long-sleeve shirt and long pants.
- Chemical resistant gloves Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all > 14 mils.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

When handlers use closed systems or enclosed cabs 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

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.

ENVIRONMENTAL HAZARDS

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 by cleaning of equipment or disposal of equipment washwaters or rinsate.

Surface Water Advisory

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

4
12

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 others 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 in your State responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

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 Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all > 14 mils.

Shoes plus socks.

PRODUCT INFORMATION

DuPont™ REALM™ Q herbicide must be used only in accordance with directions on this label or in supplemental DuPont publications. DuPont will not be responsible for losses or damage resulting from use of this product in any manner not specifically directed by DuPont.

REALM™ Q is a selective herbicide for burndown and residual control of certain annual grass and broadleaf weeds when applied postemergence to field corn.

REALM™ Q can be tank mixed with a variety of herbicides to improve burndown and residual control.

REALM™ Q is absorbed through the roots and leaf tissue of plants, rapidly inhibiting the growth of susceptible weeds. Rainfall or sprinkler irrigation is needed to move REALM™ Q into the soil. Susceptible weeds will generally not emerge from a postemergence application with activating rainfall or sprinkler irrigation (>0.5 inch). In some cases, susceptible weeds may germinate and emerge a few days after application, but growth then ceases and leaves become chlorotic three to five days after emergence. Death of leaf tissue and growing point will follow in some species, while others will remain green, stunted and noncompetitive.

5
12

REALM™ Q is best used in a planned as part of a sequential application herbicide program, following a before-planting application of DuPont™ BASIS®, DuPont™ BREAKFREE® or DuPont™ CINCH® brands, DuPont™ PREQUEL™, DuPont™ RESOLVE® Q herbicides and/or other pre-applied corn herbicides. Refer to the label of the respective corn herbicide partner for specific use directions.

For post emergence applications of REALM™ Q, if activating rainfall or sprinkler irrigation (>0.5 inch) is not received within 5 to 7 days after application, follow with a cultivation or with a sequential application of DuPont™ ACCENT® Q herbicide, or glyphosate as needed.

- Do not apply to field corn grown for seed, to popcorn or to sweet corn.
- Do not apply more than 4.0 oz of REALM™ Q per acre per growing season unless instructed to do so by DuPont Technical Bulletins, or Supplemental Labeling.
- Do not apply more than 1.0 oz active ingredient rimsulfuron per acre per growing season. This includes postemergence applications of REALM™ Q, as well as rimsulfuron from applications of products such as BASIS®, PREQUEL™, RESOLVE® Q, RESOLVE® SG and DuPont™ STEADFAST® Q.

APPLICATION INFORMATION

Field Corn - Postemergence

Rate

Apply REALM™ Q at 4.0 ounces per acre as a post emergence broadcast application. Consult DuPont technical bulletins, fact sheets or supplemental labeling for additional application rate information.

Unit Area Pack

REALM™ Q herbicide is a unit area pack herbicide that is used at the rate of 4.0 ounces per acre per application. One 80 ounce unit area pack will treat 20 acres at the 4.0 ounce per acre application rate. After opening the REALM™ Q package, you must completely empty the entire contents into the spray tank.

Timing to Crop

Apply REALM™ Q to corn that is up to 20 inches tall. Do not apply to corn taller than 20 inches or exhibiting 7 or more leaf collars, whichever is more restrictive.

While REALM™ Q has a wide application window, research has shown best results are obtained when applications are made early postemergence (row n' go) when corn and weeds are small. Target post applications to corn generally less than 12" tall for best overall performance.

Applications of REALM™ Q made after weed emergence will provide contact control of labeled weeds as well as residual control of later emerging weeds.

Timing to Emerged Weeds

Apply REALM™ Q when grasses and broadleaf weeds are young and actively growing, but before they exceed sizes listed on this label. Applications made to weed sizes greater than those listed on this product label may result in incomplete control. Grass and broadleaf weed competition due to incomplete control may reduce corn yields.

On "Roundup Ready" corn, glyphosate may be applied with DuPont™ REALM™ Q after weeds emerge but before they reach the maximum size listed on the glyphosate herbicide label.

On "Liberty Link" corn, glufosinate may be applied with REALM™ Q after weeds emerge but before they reach the maximum size listed on the glufosinate herbicide label.

Sequential Application - Pre

REALM™ Q may be used as a sequential application in a planned postemergence weed control program in corn following a reduced rate of a preemergence herbicide.

Apply pre products such as DuPont™ BASIS®, DuPont™ BREAKFREE® or DuPont™ CINCH® brands, DuPont™ PREQUEL™, DuPont™ RESOLVE® Q herbicides. Refer to the preemergence grass herbicide label for use restrictions, application information, rotational crop guidelines, and cautionary statements prior to applying REALM™ Q.

Do not apply REALM™ Q to corn that exhibits herbicide injury from previous applications made to the current or preceding crop.

Spray Adjuvants

For control of emerged weeds, applications of REALM™ Q must include a crop oil concentrate or a nonionic surfactant. In addition, an ammonium nitrogen fertilizer must be used unless specifically prohibited by tank mix partner labeling.

Crop oil concentrate plus ammonium nitrogen fertilizer is the preferred adjuvant system for REALM™ Q for control of emerged weeds. When applied in tank mix combination with a glyphosate that contains a built-in adjuvant, ensure the total adjuvant load is equivalent to the recommendations on this label. Select adjuvants authorized for use with both products.

Consult local DuPont fact sheets, technical bulletins or supplemental labels prior to using other adjuvant systems. Products must contain only EPA-exempt ingredient (40 CFR 1001).

Do not use with spray additives that alter the pH of the spray solution below 5.0 or above 9.0 as rapid product degradation can occur. Spray solutions of pH 6.0 – 8.0 allow for optimum stability of REALM™ Q.

Petroleum Crop Oil Concentrate (COC)

- Apply at 1% (1 gallon per 100 gallon spray solution), or 2% under arid conditions
- Oil adjuvants must contain at least 80% high quality, petroleum (mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.

Nonionic Surfactant (NIS)

- Apply at 0.25% v/v (1 quart per 100 gallon spray solution)
- Surfactant products must contain at least 60% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12.
- Do not use liquid nitrogen fertilizer as the total carrier solution for postemergence applications.

Ammonium Nitrogen Fertilizer

- Use 2 quarts per acre of a high quality urea ammonium nitrate (UAN) such as 27%N or 32%N, or 2 pounds per acre of a spray-grade ammonium sulfate (AMS)

Special Adjuvant Types

- Combination adjuvant products may be used at doses that provide the required amounts of NIS, COC, and/or ammonium nitrogen fertilizer. Consult product literature for use rates and restrictions.

Weeds Controlled/Suppressed

REALM™ Q 4.0 oz/acre

Refer to the Spray Adjuvants section for additional information on proper adjuvant selection.

Grasses (1 – 2")

Barley, volunteer
Barnyardgrass
Bluegrass, annual
Crabgrass, large (1/2")
Cupgrass, woolly (1")
Foxtail (bristly, giant, green, yellow)
Johnsongrass, seedling*
Millet, Wild Proso*
Panicum, fall
Quackgrass*
Ryegrass, Italian*
Shattercane (4")
Signalgrass, broadleaf*
Stinkgrass*
Wheat, volunteer
Wild oat*
Yellow nutsedge*

*partial control/suppression

Broadleaves (<5" tall)

Amaranth (Palmer, Powell, Spring)
Buckwheat, wild
Buffalobur
Burdock
Canada thistle*
Carpetweed
Carrot, wild
Chickweed, common
Cocklebur
Curly dock
Dandelion
Hemp
Horsenettle
Jimsonweed
Knotweed, prostrate
Kochia
Ladysthumb
Lambsquarters, common
Mallow, Venice
Morningglory, (ivyleaf, tall*)
Mustard, wild
Nightshade, (hairy, Eastern black)
Nutsedge, Yellow*
Pigweed, (prostrate, redroot, smooth)
Pokeweed, common*
Ragweed, (common, giant)
Sesbania, hemp
Sida, prickly
Smartweed, Pennsylvania
Velvetleaf
Waterhemp
Wild radish
Wild sunflower

*partial control/suppression

REALM™ Q 4.0 oz/acre with Glyphosate

Glyphosate may be tank mixed with post emerge applications of REALM™ Q when made to corn hybrids containing the "Roundup Ready" gene. Refer to the Spray Adjuvants section for additional information on proper adjuvant selection.

When used in a tank mixture with glyphosate herbicide, 4.0 ounces DuPont™ REALM™ Q will deliver improved burndown and/or residual activity on the following weeds.

Alfalfa, volunteer
Canada thistle
Chamomile, false
Crabgrass
Filaree, redstem
Henbit
Johnsongrass, seedling
Millet, Wild Proso
Morningglory, ivyleaf
Mustard (birdsrape, black, wild)
Purslane, common
Quackgrass
Ryegrass, Italian
Sandbur (field, longspine)
Shepherd's purse
Signalgrass, broadleaf
Stinkgrass
Waterhemp, (smooth, tall)
Wild buckwheat
Wild oat
Yellow Nutsedge

REALM™ Q 4.0 oz/acre with Glufosinate

REALM™ Q may be tank mixed with glufosinate herbicide if applications are made to corn hybrids containing the "Liberty Link" gene. Consult with your seed supplier to confirm the corn hybrid is "Liberty Link" before applying any herbicide containing glufosinate.

Tank Mixtures - Additional Control of Broadleaf and Grass Weeds

REALM™ Q may be tank mixed with full or reduced rates of other post-emerge labeled grass and broadleaf herbicides such as Atrazine, DuPont™ CINCH®, and DuPont™ BREAKFREE® brands, to provide added residual or burndown activity on emerged weeds. Consult tank mix partner labeling for rate and soil-type restrictions. Read and follow all manufacturers' label instructions for the companion herbicide(s). Do not use a tank mix partner product if its label conflicts with this REALM™ Q label.

Ensure the tank mix product is labeled for the same timing, method of application, adjuvants, and use restrictions as REALM™ Q, as well as other products used in the tank mixture.

As EC formulations, CINCH® and BREAKFREE® herbicides can act like an adjuvant in certain combinations and thus increase the risk of crop injury. If either of these tank mixtures are used, the user should leave the crop oil concentrate (COC) out of the adjuvant mix.

REALM™ Q may be tank mixed with CINCH® ATZ, CINCH® ATZ lite, BREAKFREE® ATZ, or BREAKFREE® ATZ LITE, but special attention must be paid to adjuvant selection and/or application method. If any of these tank mixtures are used the user should leave the nitrogen based adjuvant (UAN or AMS) out of the mix. There is still a risk of temporary crop injury in the form of leaf burn with these mixtures. To further reduce the risk of crop injury, the user may also leave out the crop oil concentrate (COC), or replace it with a nonionic surfactant (NIS).

In either case, the control of emerged weeds may be reduced somewhat due to less than optimum adjuvant effect or weed coverage and there is still a risk of temporary crop injury in the form of leaf burn with these mixtures.

Read and follow all applicable use directions, precautions, and limitations specified on the respective product labels, technical bulletins, fact sheets, and supplemental labels.

Tank Mix Compatibility Testing

Perform a jar test prior to tank mixing to ensure compatibility of REALM™ Q and other pesticides. Use a clear quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-ups, forms flakes, sludge, gel, oily film or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Mixing Instructions

Water Carrier Instructions

1. Fill the tank 1/4 to 1/3 full of water
2. While agitating, add the required amount of REALM™ Q
3. Continue agitation until the REALM™ Q is fully dispersed
4. Once dispersed, maintain agitation and continue filling tank with water
5. As tanks fills, add desired tank mix partners
6. If not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using
7. Apply mixture within 48 hours of mixing for best results

If the selected companion herbicide has a ground or surface water advisory, consider this advisory when using the companion herbicide.

Application and Spray Volumes

Ground

Use a minimum of 15 gallons of water per acres (GPA) to ensure thorough coverage of the weeds and the best performance. Use a minimum of 10 GPA for light, scattered stands of weeds.

Avoid spray overlaps as excessive rates may result in adverse crop response.

To minimize spray drift to non-target areas, apply this product using nozzles which deliver a coarse or larger spray droplet as defined by ASABE standard S572.1 and as shown in nozzle manufacturer's catalogs. Keep the spray boom at the lowest possible spray height above the target surface. Refer to nozzle manufacturer's recommendations for proper nozzle, pressure setting and sprayer speed for optimum product performance and minimal spray drift. Use sprayers that provide accurate and uniform coverage.

Maintain adequate agitation at all times, including momentary stops.

RESTRICTIONS/PRECAUTIONS

General

Do not tank mix REALM™ Q with "Basagran" or severe crop injury may occur.

Do not tank mix REALM™ Q with foliar-applied organophosphate insecticides such as "Lorsban", malathion, parathion, etc, as severe crop injury may occur.

Injury or loss of desirable trees or vegetation may result from failure to observe the following:

8
12

- Do not apply DuPont™ REALM™ Q or drain or flush application equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- Do not use on lawns, walks, driveways, tennis courts, or similar areas
- Prevent drift or spray onto desirable plants
- Do not contaminate any body of water
- Thoroughly clean application equipment immediately after use (See Sprayer Cleanup section of this label)

Do not graze, feed forage, grain or fodder (stover) from treated areas to livestock within 45 days of REALM™ Q application. Do not harvest grain within 70 days or harvest forage or stover within 45 days of REALM™ Q application.

Do not use aerial application to apply REALM™ Q.

Do not apply this product through any type of irrigation system

Do not use flood or furrow irrigation to apply, activate, or incorporate REALM™ Q.

Crop injury may occur following an application of REALM™ Q if there is a prolonged period of cold weather and/or in conjunction with wet soils.

This product contains 0.0375 pound of the safener isoxadifen-ethyl per pound of product. Applying the maximum application rate of REALM™ Q at 4 ounces per acre will deliver 0.01 pound of isoxadifen-ethyl per acre. When tank mixing for applications to field corn, do not apply more than a total of 0.17 pound of isoxadifen-ethyl per acre per crop season.

Soil Insecticide Interaction

REALM™ Q may interact with certain insecticides previously applied to the crop. Crop response varies with field corn type, insecticide used, insecticide application methods, and soil type.

REALM™ Q may be applied to corn previously treated with Fortress, SmartChoice, Aztec, or Force insecticides, or other non-organophosphate soil insecticides regardless of soil type.

Severe corn injury may occur if REALM™ Q is applied postemergence to corn crops that were treated with "Counter" or "Lorsban", which may result in yield loss.

ROTATIONAL CROP GUIDELINES

Rotational crops vary in their crop response to low concentrations of REALM™ Q remaining in the soil. The amount of REALM™ Q that may be present in the soil depends on soil moisture, soil temperature, application rate, elapsed time since application and other environmental factors. When REALM™ Q is used in combination with other products, always follow the most restrictive rotational crop requirements.

The following rotational intervals must be observed when using REALM™ Q:

4.0 OZ USE RATE PER ACRE PER SEASON

Rotational Crop	Interval (months)
Corn, Field	Anytime
Cereals, Winter (wheat)	4
Cereals, Spring (wheat, oats, barley)	9
Alfalfa*†	10
Cotton†	10
Canola†	10
Potatoes	10
Flax	10
Sorghum†	10
Corn, pop or sweet	10
Soybeans	10
Sunflower	10
Crops not listed	18

*On sprinkler irrigated fields in Idaho, Utah, and Northern Nevada it is best to use deep fall tillage such as plowing prior to planting alfalfa. Product degradation may be less on furrow irrigated soils and may result in some crop injury.

†18 months in the Red River Valley region of ND and MN. In all other areas, the rotation intervals should be extended to 18 months if drought conditions prevail after application and before the rotational crop is planted, unless sprinkler irrigation has been applied and totals greater than 15" during the growing season.

If REALM™ Q is applied postemergence following a mesotrione-containing preemergence herbicide, only corn (all types) or grain sorghum may be replanted the year following application, or severe crop injury may occur.

- Planting unspecified rotational crops, or those rotational crops that are specified at shorter than listed intervals may result in injury to the rotational crop.

SPRAYER PREPARATION/CLEANUP

It is important that spray equipment is clean and free of previous pesticide deposits before using REALM™ Q, and then properly cleaned out following application. Clean all application equipment before applying REALM™ Q. Follow the cleanup procedures specified on the label of the product previously sprayed. If no cleanup procedure is provided, use the procedure that follows. Immediately following applications of REALM™ Q, thoroughly clean all mix and spray equipment to avoid subsequent crop injury.

Note:

When cleaning spray equipment before applying REALM™ Q, read and follow label directions for proper rinsate disposal of the product previously sprayed.

When spraying or mixing equipment will be used over an extended period to apply multiple loads of REALM™ Q, partially fill the tank with fresh water at the end of each day of spraying, flush the boom and hoses, and allow to sit overnight.

Cleanup Procedure

1. Drain the tank and hose down the interior surfaces with clean water
2. Partially fill the tank with clean water and add one gallon of household ammonia* (containing 3% active) for every 100 gallons of water. Finish filling tank with water, then flush the cleaning solution through the hoses, boom, and nozzles. Add more water to completely fill the tank and allow agitating / re-circulating for at least 15 minutes. Again, flush the hoses, boom, and nozzles with the cleaning solution, then drain the tank.

3. Repeat Step 2
4. Remove the nozzles and screens and clean separately in a bucket containing the cleaning agent and water.
5. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing the water through the hoses and boom.

*Equivalent amount of an alternate strength ammonia solution or a tank cleaner recommended in the DuPont bulletin "Sulfonylurea Herbicides, A Guide to Equipment Cleanout" may be used.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

Avoiding spray drift is the responsibility of the applicator.

IMPORTANCE OF 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. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage.

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 sections of this label for additional information.

CONTROLLING DROPLET SIZE – GENERAL TECHNIQUES

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

Pressure – Use the lower spray pressure recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**

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.

BOOM HEIGHT

Set the boom at the lowest height that provides uniform coverage and reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential increase at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. **AVOID APPLICATION DURING GUSTY OR WINDLESS CONDITIONS.**

Note – Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in hot, dry conditions, calibrate spray equipment to produce larger droplets to reduce the effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cold 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.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR-ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air-assisted field crop sprayers carry droplets to the target via a downward-directed airstream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application and is configured properly, and that drift is not occurring.

INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultant or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest / crop systems in your area

RESISTANCE

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a

9
12

combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and / or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendation available in your area.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store product in original container only. Store in a cool, dry place.

PESTICIDE DISPOSAL: Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 50 Pounds): Nonrefillable 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 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 50 Pounds): Nonrefillable 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 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Paper or Plastic Bags, Fiber Sacks including Flexible Intermediate Bulk Containers (FIBC) or Fiber Drums With Liners: Nonrefillable container. Do not reuse or refill this container. Completely empty paper or plastic bag, fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer for recycling if available or dispose of empty paper or plastic bag, fiber sack or fiber drum and liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

Refillable Fiber Drums With Liners: Refillable container (fiber drum only). Refilling Fiber Drum: Refill this fiber drum with DuPont™ REALM™ Q herbicide containing rimsulfuron and mesotrione only. Do not reuse this fiber drum for any other purpose. Cleaning before refilling is the responsibility of the refiller. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Disposing of Fiber Drum and/or Liner: Do not reuse this fiber drum for any other purpose other than refilling (see preceding). Cleaning the container (liner and/or fiber drum) before final disposal is the responsibility of the person disposing of the container. Offer the liner for recycling if available or dispose of liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner. To clean the fiber drum before final disposal, completely empty the fiber drum by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer the fiber drum for recycling if available or dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

11
12

All Other Refillable Containers: Refillable container. Refilling Container: Refill this container with DuPont™ REALM™ Q containing rimsulfuron and mesotrione only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If damage is found, do not use the container, contact DuPont at the number below for instructions. Check for leaks after refilling and before transporting. If leaks are found, do not reuse or transport container, contact DuPont at the number below for instructions.

Disposing of Container: Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Outer Foil Pouches of Water Soluble Packets (WSP): Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or, dispose of the empty outer foil pouch in the trash as long as WSP is unbroken. If the outer pouch contacts the formulated product in any way, the pouch must be triple rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer pouch as described previously.

Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact DuPont at 1-800-441-3637, day or night.

The DuPont Oval Logo, DuPont™, REALM™, ACCENT®, BASIS®, BREAKFREE®, CINCH®, PREQUEL™, RESOLVE® and STEADFAST® are trademarks or registered trademarks of E. I. duPont de Nemours and Company

"LibertyLink" and "Aztec" are registered trademarks of Bayer CropScience AG.

"Basagran" is a registered trademark of BASF SE.

"Lorsban" is a registered trademark of Dow AgroSciences LLC. "Fortress"; "Smart Choice" and "Counter" are registered trademarks of AmVac Chemical Corporation.

"Force" is a registered trademark of a Syngenta Group Company.

"Roundup Ready" is a registered trademark of Monsanto Technology LLC

SL - 1495-1MSTR 011911 12-20-10

NOTICE TO BUYER: Purchase of this material does not confer any rights under patents of countries outside of the United States. This product includes ingredients that are covered under one or more of the following Bayer CropScience patents: 6,486,096; 6,569,805; 5,922,646; and 5,516,750. Purchase of this product includes a license for use only as specified on this label. Any use, mixture or formulation of this product other than as described on this label is expressly not authorized.

12
12

LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read this 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.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont. These risks can cause: ineffectiveness of the product, crop injury, or injury to non-target crops or plants. **WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.**

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, DUPONT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL DUPONT OR SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BUYER'S OR USER'S BARGAINED-FOR EXPECTATION IS CROP PROTECTION. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF DUPONT OR SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, TORT OR STRICT LIABILITY), WHETHER FROM FAILURE TO PERFORM OR INJURY TO CROPS OR OTHER PLANTS, AND 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 DUPONT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

To the extent consistent with applicable law that allows such requirement, DuPont or its Ag Retailer must have prompt notice of any claim so that an immediate inspection of buyer's or user's growing crops can be made. Buyer and all users shall promptly notify DuPont or a DuPont Ag Retailer of any claims, whether based on contract, negligence, strict liability, other tort or otherwise, or be barred from any remedy.

This Limitation of Warranty and Liability may not be amended by any oral or written agreement.

For product information call: 1-888-6-DUPONT

Internet address: <http://cropprotection.dupont.com/>

© 2011 E. I. du Pont de Nemours and Company, 1007 Market Street, Wilmington, Delaware 19898.

All rights reserved.