

FIELD CORN - PREEMERGENCE

General Information

PRODUCT INFORMATION

DuPont REQUIRE Q (mp) herbicide must be used only in accordance with instructions on the 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 specified by DuPont.

DuPont REQUIRE Q (mp) herbicide is a unit area pack herbicide that is used at the rate of 4 ounces per acre for burndown and residual control of certain annual grass and broadleaf weeds when applied preemergence and postemergence. One 80 ounce unit area pack will treat 20 acres at the 4 ounce per acre application rate. After opening the REQUIRE Q (mp) herbicide package, you must completely empty the entire contents of both compartments into the spray tank.

REQUIRE Q (mp) may be applied to "Roundup Ready" corn in tank mix combinations with glyphosate herbicides such as "Roundup Original", "Roundup Weathermax", or similar products to add residual control for later emerging weeds. Residual weed control is dependent on rainfall or sprinkler irrigation for herbicide activation.

Do not apply to field corn grown for seed, to popcorn or to sweet corn.

Do not make fallow applications to coarse-textured soils (sand, loamy sand or sandy loam) with less than 3% organic matter.

Do not apply preemergence to coarse-textured soils (sand, loamy sand, or sandy loam) with less than 1% organic matter.

Do not apply by air in the State of New York.

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

Do not treat irrigation ditches or water used for crop irrigation or domestic uses.

Do not treat areas where either possible downward movement into the soil, or surface washing, may cause contact of REQUIRE Q (mp) herbicide with the roots of

desirable plants such as trees and shrubs.

Ground or aerial application equipment which will give good spray coverage of weed foliage should be used. The applicator must follow the most restrictive use cautions to avoid drift hazards, including those found in the labeling, as well as state and local regulations and ordinances.

Select nozzles designed to produce minimal amounts of fine spray particles. Spray with nozzles as close to the weeds as is practical for good weed coverage.

Avoid disturbing (e.g., cultivating or mowing) for at least 7 days following application.

Do not apply to crops under stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, insects, or widely fluctuating temperatures as injury may result.

REQUIRE Q (mp) can be applied to many field corn hybrid with a relative maturity (RM) of 77 days or more. Consult with your seed supplier before applying REQUIRE Q (mp) to any corn types where specific seed company publications indicate "Warning", "Crop Response Warning", or "Sensitive" notations for the use of some ALS herbicides. As noted in the seed company publications, DuPont sulfonylurea herbicides such as REQUIRE Q (mp) should be used with caution on these hybrids. DuPont does not have access to all seed company data. Consequently, injury arising from the use of REQUIRE Q (mp) herbicide on the above types of hybrids is the responsibility of the user. Consult with your local DuPont representative or the DuPont Label Web Site (<http://cropprotection.dupont.com/>) for any additional supplemental labeling information relative to potential corn hybrid sensitivity to REQUIRE Q (mp).

APPLICATION INFORMATION

WHEN TO APPLY

Do not apply more than a total of 8 oz REQUIRE Q (mp) (or 0.5 oz active ingredient rimsulfuron) during the crop year. This includes combinations of fallow, preemergence, and postemergence applications of REQUIRE Q (mp), as well as rimsulfuron from application(s) of products such as DuPont BASIS, DuPont RESOLVE DF and DuPont STEADFAST herbicides.

FOR ALL APPLICATION TIMINGS

- Do not apply DuPont REQUIRE Q (mp) tank mixtures with glyphosate herbicides to conventional corn hybrids that do not contain the "Roundup Ready" trait.
- Do not apply REQUIRE Q (mp) tank mixtures with glufosinate herbicides to conventional corn hybrids that do not contain the "Liberty Link" trait.
- To avoid crop injury or antagonism, apply the products indicated below at least seven days before or three days after the application of REQUIRE Q (mp). Do not tank mix REQUIRE Q (mp) with "Basagran" and "Laddok" or severe crop injury may occur. Do not tank mix REQUIRE Q (mp) with foliar-applied organophosphate insecticides such as "Lorsban", malathion, parathion, etc., as severe crop injury may occur.
- Do not exceed labeled application rates. Do not tank mix REQUIRE Q (mp) with other products that contain the same active ingredients as REQUIRE Q (mp) (rimsulfuron and dicamba) unless the label of either tank mix partner specifies the maximum rate that may be used.
- Application(s) of REQUIRE Q (mp) herbicide to corn during periods of rapid growth may result in temporary leaning. Corn will usually become erect within 3 - 7 days. Cultivation should be delayed until after corn is growing normally to avoid breakage.
- DO NOT apply REQUIRE Q (mp) herbicide when soybeans are growing nearby if any of these conditions exist:
 - corn is more than 20" tall
 - soybeans are more than 10" tall
 - soybeans have begun to bloom

BROADCAST APPLICATION

Use a minimum of 15 gallons of water per acre (GPA) to ensure thorough coverage of the weeds and the best performance. Use a minimum of 10 GPA for light, scattered stands of weeds. For best performance, select nozzles and pressure that deliver MEDIUM spray droplets, as indicated, for example, by ASAE Standard S572. Nozzles that deliver COARSE spray droplets may be used to reduce drift, provided spray volume is increased to maintain coverage on small weeds.

For optimal product performance and minimal spray drift, adjust the spray boom to the lowest possible spray height recommended in manufacturers' specifications. Ensure that equipment is set up to avoid applying an excessive rate directly over the rows and into the corn plant whorl. Overlaps or starting, stopping, slowing, and turning while spraying may result in crop injury.

AERIAL APPLICATION

Aerial application is not permitted in the State of New York. Use nozzle types and arrangements that will provide optimum spray distribution and maximum coverage at a minimum of 5 GPA. Do not apply during a temperature inversion, when winds are gusty, or when conditions favor poor coverage and/or off-target spray movement.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

DuPont REQUIRE Q (mp) is absorbed through the shoots and roots of plants, rapidly inhibiting the growth of susceptible weeds. Rainfall or sprinkler irrigation is needed to move REQUIRE Q (mp) into the soil. Susceptible weeds will generally not emerge from preemergence application. 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 but stunted and noncompetitive.

The herbicidal action of REQUIRE Q (mp) may be less effective on weeds stressed from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions, or cultural practices. Rainfall within 4 hours after a postemergence application of DuPont REQUIRE Q (mp) may reduce

herbicidal activity.

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 consultants 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 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 recommendations available in your area.

SOIL INSECTICIDE

INTERACTION INFORMATION

DuPont REQUIRE Q (mp) may interact with certain insecticides previously applied to the crop. Crop response varies with field corn type, insecticide used, insecticide application method, and soil type.

REQUIRE Q (mp) may be applied to corn previously treated with "Fortress", "Aztec", or "Force" insecticides or nonorganophosphate (OP) soil insecticides regardless of soil type.

- Do not apply REQUIRE Q (mp) within 60 days of crop emergence where an organophosphate insecticide (such as Counter) was applied as an in-furrow treatment since crop injury may occur. Also, allow at least 60 days between a preplant application of REQUIRE Q (mp) and application of an organophosphate insecticide since crop injury may result.

- DO NOT APPLY REQUIRE Q (mp) to corn previously treated with "Counter" 15G or to corn treated with "Counter" 20CR infurrow or over the row at cultivation.

- Applications of REQUIRE Q (mp) to corn previously treated with "Counter" 20 CR, "Lorsban", or "Thimet" may cause unacceptable crop injury, especially on soils of less than 4% organic matter.

PRECAUTIONS

REQUIRE Q (mp) may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes, and other broadleaf plants when contacting their roots stems or foliage. These plants are most sensitive to REQUIRE Q (mp) during their development or growing stage.

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

- Do not apply REQUIRE Q (mp) 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 to desirable plants.
- Do not contaminate any body of water.
- Thoroughly clean application equipment immediately after use. (See Sprayer Cleanup section of the label for instructions).

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

A corn plant's predisposition to develop fused tissue merging from the whorl (rattail) after the V-11 stage may increase when a product containing dicamba or other growth regulator herbicides [e.g. REQUIRE Q (mp)] is applied to small corn (less than 4 inches in height) under early stressful conditions. See ENVIRONMENTAL CONDITIONS for a description of these stressful conditions.

Corn may be harvested or grazed for feed once the crop has reached the ensilage (milk) stage or later in maturity.

However, do not graze, feed forage, grain or fodder (stover) from treated areas to livestock within 30 days of REQUIRE Q (mp) application.

Refer in the label regarding tank mix information.

Limitations, Restrictions, and Exceptions

FIELD CORN

Up to 2 applications of REQUIRE Q (mp) herbicide may be made during a growing season. Sequential applications must be separated by 2 weeks or more.

WHEN TO APPLY - Preemergence to the Crop

Apply REQUIRE Q (mp) at 4.0 ounce per acre before corn emergence. See cumulative rimsulfuron rate limitation as noted. Consult DuPont technical bulletins, fact sheets or supplemental labeling for additional application rate information.

REQUIRE Q (mp) herbicide may be used in either conventional, conservation tillage, or no-till crop management systems and may be applied either preplant, preplant

incorporated (less than 2" deep), preemergence, or post emergence for use in field corn production.

Applications of REQUIRE Q (mp) made before weed emergence will provide residual control of labeled weeds. Control of emerged weeds will require the addition of spray adjuvants, and can be further enhanced with additional tank mix partners as noted in the label.

Preplant Surface Applied – REQUIRE Q (mp) may be applied up to 30 days prior to planting. REQUIRE Q (mp) is best used in a planned sequential application program, followed by REQUIRE Q (mp), Steadfast Q, tank mixed with appropriate corn herbicide partners post applied. Refer to the label of the respective sequential partner for specific use directions.

Preplant/Preemerge Burndown – REQUIRE Q (mp) may be applied when weeds are present at the time of treatment in a tank mixture with crop oil concentrate or methylated seed oil for burndown of labeled weeds 3" or less in height. When weeds are greater than 3" in height or weeds not controlled by DuPont REQUIRE Q (mp) are present, the addition of burndown herbicide (ie glyphosate, gramoxone, dicamba, and/or 2, 4-D) is recommended. If giant ragweed, common cocklebur, henbit, Pennsylvania smartweed or purple deadnettle are present at the time of application, the addition of atrazine will improve control. Observe direction for use and precaution and restrictions on the label of the burndown herbicide. When mixing with liquid nitrogen fertilizer or glyphosate, substitute a nonionic surfactant for crop oil.

TIMING TO WEEDS

- Tank mixtures with glyphosate or glufosinate herbicides may be applied after weeds emerge but before they reach the maximum size listed on the glyphosate or glufosinate herbicide labels.
- Adequate soil moisture is required for optimum activity. Rainfall within 7 days after application will enhance REQUIRE Q (mp) residual activity. If activating rainfall or sprinkler irrigation (>0.5 inch) is not received within 7 days after application, follow with a cultivation or with a sequential application of DuPont ACCENT herbicide, if needed.

RATE

REQUIRE Q (mp) is a unit area pack product which will treat 20 acres of corn as a broadcast application. Apply at a rate of 4 ounces per acre for control or suppression of the grasses and broadleaf weeds listed.

Do not apply more than 4 ounces of REQUIRE Q (mp) per acre per application unless instructed to do so by DuPont Technical Bulletins or Supplemental Labeling.

Do not apply more than 8 ounces of REQUIRE Q (mp) in a single use season.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Surface](#)

[Burndown](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Surface](#)

[Burndown](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Surface](#)

[Burndown](#)

Rates

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Restricted Entry Interval

24 hours

Timings

[Preemergence \(Crop\)](#)

[Preplant](#)

[Preplant Incorporated](#)