



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

91234-135

Date of Issuance:

7/30/19

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

A363.04

Name and Address of Registrant (include ZIP Code):

Atticus, LLC
5000 CentreGreen Way, Suite 100
Cary, NC 27513

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 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 unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 91234-135."
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Signature of Approving Official:

Erik Kraft, Product Manager 24
Fungicide Herbicide Branch, Registration Division (7505P)

Date:

7/30/19

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.

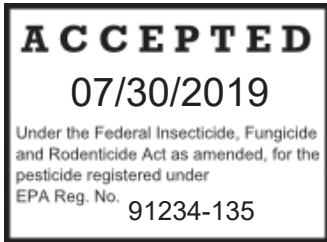
If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 02/20/2019

If you have any questions, please contact BeWanda Alexander by phone at (703)347-0313, or via email at alexander.bewanda@epa.gov

Enclosure

[Note to reviewer: [Text] in brackets denotes optional or explanatory language
 [Note to reviewer: {Text} in braces denotes where in the final label text will appear
 {BOOKLET FRONT PANEL LANGUAGE}]



| | | |
|-------------|----------|-----------|
| MESOTRIONE | GROUP 27 | HERBICIDE |
| RIMSULFURON | GROUP 2 | HERBICIDE |

A363.04 [™]

[Alternate Brand Name: Cavallo TRS Q]

[Contains mesotrione and rimsulfuron, the active ingredients used in Realm® Q.]

[For postemergence use in Field Corn]

| ACTIVE INGREDIENTS: | (% by weight) |
|---------------------------------|---------------|
| Rimsulfuron* | 7.50% |
| Mesotrione..... | 31.25% |
| OTHER INGREDIENTS: | <u>61.25%</u> |
| TOTAL | 100.0% |

*N-((4,6-dimethoxypyrimidin-2-yl) aminocarbonyl)-3-(ethylsulfonyl)-2-pyridinesulfonamide

**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.)

| 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 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 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 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 mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. |
| HOT LINE NUMBER | |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information. | |

**For Chemical Emergency:
 Spill, Leak, Fire, Exposure, or Accident,**

Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

See inside label booklet for First Aid, Precautionary Statements and Directions for Use.

[[A363.04™] is not manufactured, or distributed by DuPont Crop Protection, seller of Realm® Q.]

EPA Reg. No.: 91234-XX

EPA Est. No.:

Net Weight:

Manufactured for:
Atticus, LLC
5000 CentreGreen Way, Suite 100
Cary, NC 27513

{LANGUAGE INSIDE BOOKLET}

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum using tobacco or using the toilet.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeve shirt and long pants.
- Chemical resistant gloves including butyl rubber, natural rubber, neoprene rubber, or nitrile rubber, all \geq 14 mils.
- Shoes plus socks.
- Protective eyewear.

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

Users should:

- Remove clothing/PPE 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.

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 including 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.

Non-target Organism Advisory

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

Windblown Soil Particles Advisory

WINDBLOWN SOIL PARTICLES: **A363.04** has the potential to move off-site due to wind erosion. Soils that are subject to wind erosion usually have a high silt and/or fine to very fine sand fractions and low organic matter content. Other factors which can affect the movement of windblown soil include the intensity and direction of prevailing winds, vegetative cover, site slope, rainfall, and drainage patterns. Avoid applying **A363.04** if prevailing local conditions may be expected to result in off-site movement.

DIRECTIONS FOR USE

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

A363.04 must be used only in accordance with instructions on this label.

To the extent consistent with applicable law, Atticus, LLC will not be responsible for losses or damages resulting from use of this product in any manner not specifically instructed by Atticus. To the extent consistent with applicable law, user assumes all risks associated with such non-labeled use.

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 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 including butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all ≥ 14 mils.
- Shoes plus socks.
- Protective eyewear.

PRODUCT INFORMATION

A363.04 is a selective herbicide for burndown and residual control of certain annual grass and broadleaf weeds when applied postemergence to field corn.

A363.04 can be tank mixed with a variety of herbicides to improve burndown and residual control.

A363.04 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 **A363.04** 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.

A363.04 is best used in a planned as part of a sequential application herbicide program, following a before-planting application of DuPont™ BASIS® (rimsulfuron + thifensulfuron, EPA Reg. No. 352-571) or [A363.07™], DuPont™

BREAKFREE® (acetochlor, EPA Reg. No. 352-722) or DuPont™ CINCH® (S-metolachlor, EPA Reg. No. 352-625) brands, DuPont™ INSTIGATE™ (mesotrione + rimsulfuron, EPA Reg. No. 352-873) or [A363.03], DuPont™ PREQUEL® (isoxaflutole + rimsulfuron, EPA Reg. No. 352-779), DuPont™ RESOLVE® Q (rimsulfuron + thifensulfuron, EPA Reg. No. 352-777) or [A363.06™] 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 **A363.04**, 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 (nicosulfuron, EPA Reg. No. 352-773) herbicide, or glyphosate as needed.

APPLICATION INFORMATION

Field Corn - Postemergence

Rate

Apply **A363.04** at 4.0 ounces per acre (**.018 lb rimsulfuron and 0.078 lb mesotrione per acre**) as a post emergence broadcast application.

Timing to Crop

- Apply **A363.04** 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 **A363.04** 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 **A363.04** 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 **A363.04** 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 **A363.04** 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 **A363.04** after weeds emerge but before they reach the maximum size listed on the glufosinate herbicide label.
- **A363.04** is rainfast in 4 hours.

Sequential Application - Pre

- **A363.04** 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 including BASIS® (rimsulfuron + thifensulfuron, EPA Reg. No. 352-571) or [A363.07], DuPont™ BREAKFREE® (acetochlor, EPA Reg. No. 352-722) or DuPont™ CINCH® brands (S-metolachlor, EPA Reg. No. 352-625), DuPont™ INSTIGATE™ (mesotrione + rimsulfuron, EPA Reg. No. 352-873) or [A363.03], PREQUEL® (isoxaflutole + rimsulfuron, EPA Reg. No. 352-779), RESOLVE® Q (rimsulfuron + thifensulfuron, EPA Reg. No. 352-777) or [A363.06™] herbicides. Refer to the preemergence grass herbicide label for use restrictions, application information, rotational crop guidelines, and cautionary statements prior to applying **A363.04**.
- **DO NOT** apply **A363.04** 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 **A363.04** 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 **A363.04** 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 specifications on this label. Select adjuvants authorized for use with both products.

Products must contain only EPA-exempt ingredients.

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 **A363.04**.

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) oil with at least 15% surfactant emulsifier.

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) including 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

A363.04 4.0 oz/acre (.018 lb rimsulfuron and 0.078 lb mesotrione per acre).

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

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

* partial control/suppression

| Broadleaves (<5" tall) | |
|--------------------------------------|-----------------------|
| Amaranth (Palmer***, Powell, Spring) | Lambsquarters, common |
| Buckwheat, wild | Mallow, Venice |
| Buffalobur | Marestail** |

| | |
|---------------------|---------------------------------------|
| Burcucumber | Morningglory, (ivyleaf, tall*) |
| Canada thistle* | Mustard, wild |
| Carpetweed | Nightshade, (hairy, Eastern black) |
| Carrot, wild | Nutsedge, Yellow* |
| Chickweed, common | Pigweed, (prostrate, redroot, smooth) |
| Cocklebur | Pokeweed, common* |
| Curly dock | Ragweed, (common, giant) |
| Dandelion | Sesbania, hemp |
| Hemp | Sida, prickly** |
| Horsenettle | Smartweed, Pennsylvania |
| Jimsonweed | Velvetleaf |
| Knotweed, prostrate | Waterhemp*** |
| Kochia | Wild radish |
| Ladysthumb | Wild sunflower |

*partial control/suppression

**add atrazine for control

***For resistance management add an herbicide with another mode of action including atrazine.

A363.04 4 oz/acre (.018 lb rimsulfuron and 0.078 lb mesotrione per acre) with Glyphosate

Glyphosate may be tank mixed with post emerge applications of **A363.04** 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 **A363.04 (.018 lb rimsulfuron and 0.078 lb mesotrione per acre)** will deliver improved burndown and/or residual activity on the following weeds.

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

A363.04 4.0 oz/acre (.018 lb rimsulfuron and 0.078 lb mesotrione per acre) with Glufosinate

A363.04 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

A363.04 may be tank mixed with full or reduced rates of other post-emerge labeled grass and broadleaf herbicides including Atrazine, DuPont™ CINCH® (S-metolachlor, EPA Reg. No. 352-625), and DuPont™ BREAKFREE® (acetochlor, EPA Reg. No. 352-722) brands, to provide added residual turndown activity on emerged weeds. Consult tank mix partner labeling for rate and soil-type restrictions. Read and follow the manufacturers' label instructions for the companion herbicide(s). **DO NOT** use a tank mix partner product if its label conflicts with this **A363.04** label. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing.

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

Ensure the tank mix product is labeled for the same timing, method of application, adjuvants, and use restrictions as **A363.04**, as well as other products used in die tank mixture. As EC formulations, CINCH® (*S*-metolachlor, EPA Reg. No. 352-625) and BREAKFREE® (acetochlor, EPA Reg. No. 352-722) 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 must leave the crop oil concentrate (COC) out of the adjuvant mix.

A363.04 may be tank mixed with CINCH® ATZ (atrazine + *S*-metolachlor, EPA Reg. No. 352-624), CINCH® ATZ Lite (atrazine + *S*-metolachlor, EPA Reg. No. 352-623), BREAKFREE® ATZ (atrazine + acetochlor, EPA Reg. No. 352-724), or BREAKFREE® ATZ LITE (atrazine + acetochlor, EPA Reg. No. 352-723), but special attention must be paid to adjuvant selection and/or application method. If any of these tank mixtures are used the user must leave the urea ammonium nitrate (UAN) 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 must also leave out the crop oil concentrate (COC), and 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 bum with these mixtures. Read and follow all applicable use directions, precautions, and limitations specified on the respective product label. Always follow the tank mix instructions of the product label that is most restrictive.

Tank Mix Compatibility Testing

Perform ajar test prior to tank mixing to ensure compatibility of **A363.04** 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 must 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 **A363.04**
3. Continue agitation until the **A363.04** 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.
- Use sprayers that provide accurate and uniform coverage.
- Maintain adequate agitation at all times, including momentary stops.

RESTRICTIONS

- **DO NOT** apply to field corn grown for seed, to popcorn or to sweet corn.

- **DO NOT** apply more than 4.0 oz of **A363.04** per acre (.018 lb rimsulfuron and 0.078 lb mesotrione per acre) per year.
- **DO NOT** apply more than 4.0 oz of **A363.04** per acre (.018 lb rimsulfuron and 0.078 lb mesotrione per acre) in a single application.
- **DO NOT** make more than two applications per acre per year when using reduced application rates.
- **RTI:** 14 days
- **DO NOT** apply more than 1.0 oz (0.0625 lb) active ingredient rimsulfuron per acre per year. This includes postemergence applications of **A363.04** as well as rimsulfuron from applications of products including DuPont™ BASIS® (rimsulfuron + thifensulfuron, EPA Reg. No. 352-571) or [A363.07], DuPont™ INSTIGATE™ (mesotrione + rimsulfuron, EPA Reg. No. 352-873) or [A363.03], DuPont™ PREQUEL® (isoxaflutole + rimsulfuron, EPA Reg. No. 352-779), DuPont™ RESOLVE® Q (rimsulfuron + thifensulfuron, EPA Reg. No. 352-777) or [A363.06™], RESOLVE® SG (rimsulfuron, EPA Reg. No. 352-748) and DuPont™ STEADFAST® Q (nicosulfuron + rimsulfuron, EPA Reg. No. 352-608).
- **DO NOT** apply more than 3.85 ounces (0.24 lb) active ingredient of mesotrione in a year. This includes postemergence applications of **A363.04** as well as mesotrione from application(s) of products including DuPont™ INSTIGATE (mesotrione + rimsulfuron, EPA Reg. No. 352-873) or [A363.03].
- **DO NOT** tank mix **A363.04** with "Basagran" (sodium bentazon, EPA Reg. No. 7969-45) or Biscayne™ (sodium bentazone, EPA Reg. No. 91234-102) or severe crop injury may occur.
- **DO NOT** tank mix **A363.04** with foliar-applied organophosphate insecticides including "Lorsban", malathion, parathion, etc, as severe crop injury may occur. To avoid crop injury or antagonism, apply these products at least seven days before or 3 days after the application of **A363.04**.
- **DO NOT** apply **A363.04** within 45 days of crop emergence where the organophosphate insecticide, "Counter" was applied as a treatment since crop injury may occur.
- Injury or loss of desirable trees or vegetation may result from failure to observe the following:
 - **DO NOT** apply **A363.04** 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, or tennis courts.
 - **DO NOT** contaminate any body of water.
- **DO NOT** graze, feed forage, grain or fodder (stover) from treated areas to livestock within 45 days of **A363.04** application.
- **DO NOT** harvest grain within 70 days or harvest forage or stover within 45 days of **A363.04** application.
- **DO NOT** use aerial application to apply **A363.04**.
- **DO NOT** apply this product through any type of irrigation system.
- This product contains 0.0375 pound of the safener isoxadifen-ethyl per pound of product. Applying the maximum application rate of **A363.04** 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 year.

PRECAUTIONS

- **A363.04** 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.
- **A363.04** may be applied to corn previously treated with Fortress (chlorethoxyfos, EPA Reg. No. 5481-493), SmartChoice (bifenthrin + chlorethoxyfos, EPA Reg.No. 5481-587), Aztec (cyfluthrin + phostebupirim, EPA Reg. No. 5481-9029), or Force (tefluthrin, EPA Reg. No. 100-1075) insecticides, or other non-organophosphate soil insecticides regardless of soil type.
- Severe corn injury may occur if **A363.04** is applied postemergence to corn crops that were treated with "Counter" (terbufos, EPA Reg. No. 5481-562) or "Lorsban" (chlorpyrifos, EPA Reg. No. 62719-34), which may result in yield loss.

- Crop injury may occur following an application of **A363.04** if there is a prolonged period of cold weather and/or in conjunction with wet soils.
- Prevent drift or spray onto desirable plants.
- Thoroughly clean application equipment immediately after use (See Sprayer Cleanup section of this label).

ROTATIONAL CROP GUIDELINES

Rotational crops vary in their crop response to low concentrations of **A363.04** remaining in the soil. The amount of **A363.04** that may be present in the soil depends on soil moisture, soil temperature, application rate, elapsed time since application and other environmental factors. When **A363.04** is used in combination with other products, always follow the most restrictive rotational crop requirements.

The following rotational intervals must be observed when using **A363.04**:

4.0 OZ USE RATE PER ACRE PER YEAR

| Rotational Crop | Interval (months) |
|---------------------------------------|-------------------|
| Corn, Field | Anytime |
| Cereals, Winter | 4 |
| Cereals, Spring (wheat, oats, barley) | 9 |
| Alfalfa* ‡ | 10 |
| Canola ‡ | 10 |
| Corn, pop, seed or sweet | 10 |
| Cotton ‡ | 10 |
| Flax | 10 |
| Peanuts | 10 |
| Potatoes | 10 |
| Sorghum ‡ | 10 |
| Soybeans | 10 |
| Sunflower | 10 |
| Sweet potatoes/yams** | 10 |
| Tobacco | 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.

** On soils with pH 6.5 or less.

‡18 months in the Red River Valley region of ND and MN. In all other areas, the rotation intervals must 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.

- 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 **A363.04**, and then properly cleaned out following application. Clean all application equipment before applying **A363.04**. 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 **A363.04**, thoroughly clean all mix and spray equipment to avoid subsequent crop injury.

Note:

When cleaning spray equipment before applying **A363.04**, 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 **A363.04**, 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, screens and the end caps of sprayer booms 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.

MANDATORY SPRAY DRIFT

Ground Applications

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- For all applications, applicators are required to use a coarse or coarser spray droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

Boom-less Ground Applications:

- Applicators are required to use a coarse or coarser droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

Spray Drift Advisories

- THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
- BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.
- **IMPORTANCE OF DROPLET SIZE**

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

Controlling Droplet Size - Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.
- **BOOM HEIGHT - Ground Boom**
Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

- **SHIELDED SPRAYERS**

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

- **TEMPERATURE AND HUMIDITY**

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

- **TEMPERATURE INVERSIONS**

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

- **WIND**

Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.**

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

- **Boom-less Ground Applications:**

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

- **Handheld Technology Applications:**

Take precautions to minimize spray drift.

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, that it is configured properly, and that drift potential has been minimized.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Read the specific crop use and application equipment instructions to determine if an air assisted field crop sprayer can be used.

DRIFT CONTROL ADDITIVES

Using product compatible drift control additives can reduce drift potential. When a drift control additive is used read and carefully observe cautionary statements and all other information on the additive's label. If using an additive that increases viscosity, ensure that the nozzles and other application equipment will function properly with a viscous spray solution. Preferred drift control additives have been certified by the Chemical Producers and Distributors Association (CPDA).

INTEGRATED PEST MANAGEMENT

A363.04 should be integrated into an overall weed and pest management strategy whenever the use of a herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

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 MANAGEMENT

For resistance management, please note that **A363.04** contains both a Group 2 [rimsulfuron] and a Group 27 [mesotrione] herbicide. Any weed population may contain plants naturally resistant to Group 2 and/or Group 27 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of **A363.04** or other Group 2 and 27 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after and before herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method including hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Atticus, LLC at (984) 465-4754.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the 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 HANDLING:

[For Residential uses]

[Nonrefillable container. Do not reuse or refill this container. If empty: Offer for recycling if available or discard in a sanitary landfill. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.]

[For Commercial Uses]

[For plastic containers ≤ 5 gallons: 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 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

[For plastic containers > 5 gallons: 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 ¼ full with water. Recap and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

LIMITATION OF WARRANTY AND LIABILITY

IMPORTANT: READ BEFORE USE. Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of ATTICUS, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ATTICUS, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, neither ATTICUS, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

[A363.04], [A363.07], Cavallo TRS Lite, Biscayne, [A363.06], are trademarks of Atticus, LLC

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Basagran is a registered trademark of BASF SE.

Lorsban is a registered trademark of Dow AgroSciences LLC.

{LANGUAGE ON LABEL AFFIXED TO CONTAINER}

| | | |
|-------------|----------|-----------|
| MESOTRIONE | GROUP 27 | HERBICIDE |
| RIMSULFURON | GROUP 2 | HERBICIDE |

A363.04™

[Alternate Brand Name: Cavallo TRS Q]

[Contains mesotrione and rimsulfuron, the active ingredients used in Realm® Q.]

For postemergence use in Field Corn

| | |
|----------------------------|----------------------|
| ACTIVE INGREDIENTS: | (% by weight) |
| Rimsulfuron* | 7.50% |
| Mesotrione | 31.25% |
| OTHER INGREDIENTS: | 61.25% |
| TOTAL | 100.0% |

*N-((4,6-dimethoxyimidin-2-yl) aminocarbonyl)-3-(ethylsulfonyl)-2-pyridinesulfonamide

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.)

| 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 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 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 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 mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. |
| HOT LINE NUMBER | |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information. | |

For Chemical Emergency:

Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before

eating, drinking, chewing gum using tobacco or using the toilet. **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.

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See inside label booklet for additional Precautionary Statements and Directions for Use.

[[A363.04™] is not manufactured, or distributed by DuPont Crop Protection, seller of Realm® Q.]

Manufactured for:
Atticus, LLC
 5000 CentreGreen Way, Suite 100
 Cary, NC 27511

EPA Reg. No.: 91234-XX
EPA Est. No.: _____
NET WEIGHT: _____