



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

January 26, 2016

Jim Baxter
Regulatory Manager
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

Subject: Label Amendment – Removal of sweet corn from label
Product Name: Resicore
EPA Registration Number: 62719-693
Application Date: 1/21/2016
Decision Number: 513097

Dear Mr. Baxter:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Sarah Meadows by phone at 703-347-0505, or via email at meadows.sarah@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Reuben Baris".

Reuben Baris, Product Manager 25
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

(Base label):

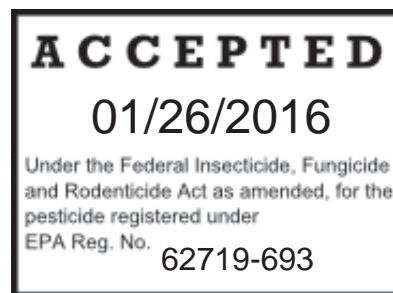
ResicoreTM HERBICIDE

A herbicide for control of annual grasses and broadleaf weeds in field corn, field seed corn, field silage corn, and yellow popcorn.

| | | | | |
|--------------|-----------|-----------|----------|-------------------|
| Group | 15 | 27 | 4 | HERBICIDES |
|--------------|-----------|-----------|----------|-------------------|

Active Ingredients:

acetochlor: 2-chloro-N-ethoxymethyl-N-(2-ethyl-6-methylphenyl)acetamide.....31.0%
 mesotrione: 2-[4-(methylsulfonyl)-1,3-cyclohexanedione].....3.3%
 clopyralid MEA salt: 3,6-dichloropyridinecarboxylic acid, monoethanolamine salt.....2.7%
 Other Ingredients: 63.0%
 Total 100.0%



Contains 336 grams/liter or 2.8 pounds/gallon acetochlor, 36 grams/liter or 0.30 pounds/gallon mesotrione, and 22.4 grams/liter or 0.19 pounds/gallon clopyralid, acid equivalent (3,6-dichloropyridinecarboxylic acid).

Not for Sale, Sale Into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.

Keep Out of Reach of Children

CAUTION PRECAUCION

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.)

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful If Swallowed or Absorbed Through Skin • Causes Moderate Eye Irritation • Prolonged or Frequently Repeated Skin Contact May Cause Allergic Reactions in Some Individuals

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

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 C on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- 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.

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

Engineering Controls: When handlers use closed systems 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)(5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands thoroughly after handling and 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.
- 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.

First Aid

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 day or night, for emergency treatment information.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Acetochlor demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the groundwater is shallow, may result in groundwater contamination.

Clopyralid is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this product where soils are permeable, particularly where the water table is shallow, may result in leaching to ground water.

Surface Water Advisory

Mesotrione 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.

Acetochlor has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Nonrefillable containers 5 gallons or less:

Storage and Disposal

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

Pesticide Storage: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic absorbent.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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

Refillable containers larger than 5 gallons:

Storage and Disposal

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

Pesticide Storage: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic absorbent.

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Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies at end of label booklet. If terms are not acceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-693

EPA Est. _____

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

**Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268**

NET CONTENTS ____

(cover/shipping container)

Resicore™ HERBICIDE

A herbicide for control of annual grasses and broadleaf weeds in field corn, field seed corn, field silage corn, and yellow popcorn.

| | | | | |
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Contains 336 grams/liter or 2.8 pounds/gallon acetochlor, 36 grams/liter or 0.30 pounds/gallon mesotrione, and 22.4 grams/liter or 0.19 pounds/gallon clopyralid, acid equivalent (3,6-dichloropyridinecarboxylic acid).

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NET CONTENTS ____

(Page 1 through end):

Precautionary Statements

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Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

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 C on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- 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.

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

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If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 day or night, for emergency treatment information.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Acetochlor demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the groundwater is shallow, may result in groundwater contamination.

Clopyralid is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this product where soils are permeable, particularly where the water table is shallow, may result in leaching to ground water.

Surface Water Advisory

Mesotrione 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.

Acetochlor has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion.

Directions for Use

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

Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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. **Exception:** If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 made of any waterproof material
- Shoes plus socks

Storage and Disposal

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

Pesticide Storage: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic absorbent.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Nonrefillable containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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

Refillable containers larger than 5 gallons:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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Product Information

For use only on field corn, field seed corn, field silage corn, and yellow popcorn, which collectively will be referred to as "corn" in this label.

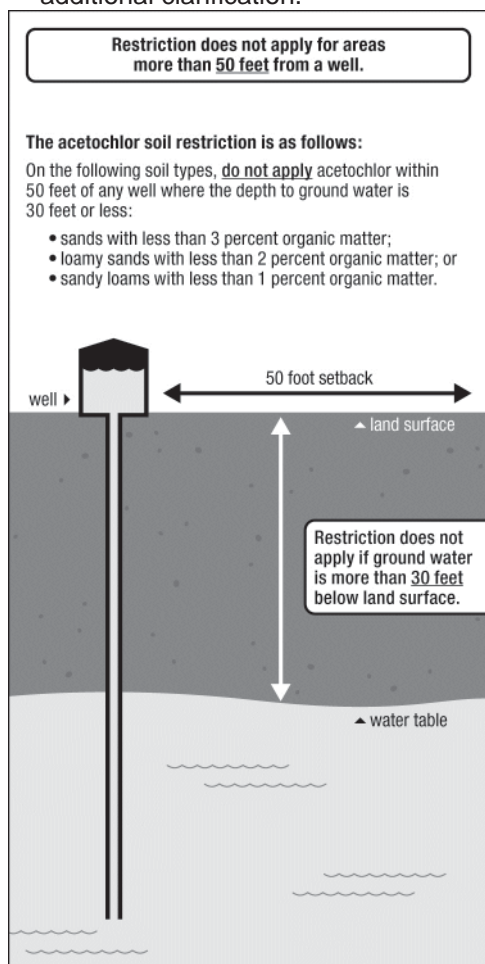
Resicore™ herbicide may be used preplant, preemergence (after planting but prior to crop emergence), or postemergence (after crop emergence) in field corn, field seed corn, and field silage corn fields. For yellow popcorn, Resicore must be applied prior to crop emergence (i.e., preplant or preemergence) or severe crop injury may occur.

Resicore is a combination of the herbicides acetochlor (group 15), mesotrione (group 27), and clopyralid (group 4), plus the crop safener furilazole. This combination of three herbicide modes of action controls many grass and broadleaf weeds by interfering with normal germination, growth, and seedling development. When applied after weed emergence, Resicore will provide control of many broadleaf weed species but will not provide consistent control of emerged grass weeds. Resicore may be used in tank mix combinations with other herbicides registered for use on the above corn crops to enhance or broaden the spectrum of control of weeds listed in the "Weeds Controlled" section of this label (Tables 4 and 5).

Use Restrictions

- **Not for Sale, Sale Into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.**
- All containers of Resicore must be kept tightly closed when not in use.
- Observe all restrictions, precautions, and limitations on the label of each product used in tank mixtures.
- Resicore must be used in a manner that will prevent back siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates.
- Do not store Resicore near seeds, fertilizers, or foodstuffs.
- Do not allow Resicore to contaminate feed or food.
- Do not use Resicore on any crop other than field corn (for grain, seed, or silage), or yellow popcorn.
- Do not use Resicore in the production of white popcorn or ornamental (Indian) corn or crop injury may occur.
- Do not apply Resicore to yellow popcorn after the crop has emerged or severe crop injury may occur.
- Do not make postemergence applications of Resicore to field corn, field seed corn, or field silage corn using liquid fertilizer as the carrier or severe crop injury may occur.
- Do not make postemergence (emerged corn) applications of Resicore in a tank mix with any organophosphate or carbamate insecticide or severe crop injury may occur.
- Do not apply Resicore to field corn, field seed corn, and field silage corn over 11 inches tall.
- Do not contaminate irrigation water used for crops other than corn or water used for domestic purposes.

- On the following soil types, do not apply this product within 50 feet of any well where the depth to groundwater is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1 percent organic matter. See the figure for additional clarification.



This product must not be mixed or loaded, or used within 50 feet of all wells, including abandoned wells, drainage wells, and sinks holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. Additional State imposed requirements regarding well-head setbacks and operational area containment must be observed.

- Do not apply this product through any type of irrigation system.
- Use a sprinkler irrigation system only to incorporate Resicore after application. After Resicore has been applied, a sprinkler irrigation system set to deliver 0.5-1.0 inch of water may be used to incorporate the product; using more than one inch of water could result in reduced performance. On sandy soils low in organic matter, apply no more than 0.5 inch of water.
- Do not use flood or furrow irrigation to incorporate this product.
- Do not apply under conditions that favor runoff or wind erosion of soil containing this product to non-target areas. To prevent off-site movement due to runoff or wind erosion:
 - Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.
 - Do not apply to impervious substrates such as paved or highly compacted surfaces or frozen or snow covered soils.
 - Do not use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.
- **Aerial Application:** Do not apply Resicore using aerial application equipment unless otherwise directed by approved supplemental labeling in possession of the user at the time of application.
- Do not apply when wind conditions favor drift to non-target sites. To minimize spray drift to non-target areas:
 - Use low-pressure application equipment capable of producing a large droplet spray.
 - Do not use nozzles that produce a fine droplet spray.
 - Minimize drift by using sufficient spray volume to ensure adequate coverage with large droplet size sprays.
 - Keep ground-driven spray boom as low as possible above the target surface at the minimum specified height required for uniform spray coverage with the spray nozzle used.
 - Make application when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph.
 - Do not apply when wind gusts approach 15 mph.
 - Low humidity and high temperatures increase the likelihood of spray drift to sensitive areas. Do not spray during conditions of low humidity and/or high temperatures. Do not apply during inversion conditions.
- Thoroughly clean sprayer or other application equipment before and after use. Do not use a sprayer or applicator contaminated with other materials or crop damage or sprayer clogging of the application equipment may occur.
- **Maximum Acetochlor Application Rates Per Calendar Year:**
When tank mixing or sequentially applying products containing acetochlor with Resicore to corn, do not exceed an application rate of 3.00 pounds active ingredient of acetochlor per acre per year. **Note:** For purposes of calculating total acetochlor active ingredient applied, Resicore contains 2.80 pounds active ingredient acetochlor per gallon (0.70 pound active ingredient acetochlor per quart).
- **Maximum Mesotrione Application Rates Per Calendar Year:**
When tank mixing or sequentially applying products containing mesotrione with Resicore to corn, do not exceed an application rate of 0.24 pound active ingredient of mesotrione per acre per year. **Note:** For purposes of calculating total mesotrione active ingredient applied, Resicore contains 0.30 pound active ingredient mesotrione per gallon (0.075 pound active ingredient mesotrione per quart).
- **Maximum Clopyralid Application Rates Per Calendar Year:**
When tank mixing or sequentially applying products containing clopyralid with Resicore to corn, do not exceed an application rate of 0.25 pound acid equivalent of clopyralid per acre per year. **Note:** For

purposes of calculating total clopyralid active ingredient applied, Resicore contains 0.187 pound acid equivalent clopyralid per gallon (0.047 pound acid equivalent clopyralid per quart).

- Do not apply more than 3.25 quarts of Resicore per acre per year.
- Do not make more than two applications of Resicore per year.
- **Preharvest Interval:** Do not apply Resicore within 45 days of harvest for ears and forage or within 60 days of harvest for stover.

Use Precautions

- Acetochlor demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the ground water is shallow, may result in ground water contamination.
- Avoid spray overlap, as crop injury may result.
- Avoid spray drift onto adjacent crop or non-crop areas.
- Resicore will not provide consistent control of emerged grass weeds present at application; utilize tank mixtures or sequential applications of herbicides registered for postemergence control of grass weeds in corn.
- Applying Resicore postemergence (emerged corn) to corn that has received an at-plant application of phorate or terbufos insecticide may result in severe corn injury. Temporary corn injury may occur if Resicore is applied to emerged corn where organophosphate insecticides other than phorate or terbufos were applied at planting.
- Postemergence (emerged corn) applications of any organophosphate or carbamate insecticide within 7 days before or 7 days after a Resicore application may result in severe corn injury.
- Dry weather following preplant or preemergence applications of Resicore or a Resicoretank mixture may reduce effectiveness. If weeds develop, they may be controlled with cultivation or use of registered corn herbicides.
- Where reference is made to weeds partially controlled, partial control can mean erratic or inconsistent control or efficacy at a level below that generally considered acceptable for commercial weed control.
- Applied according to directions and under normal growing conditions, Resicore will not harm the treated crop. During germination and early stages of growth, extended periods of unusually cold and wet or hot and dry weather, insect or plant disease attack, carryover pesticide residues, the use of certain soil-applied systemic insecticides, or improperly placed fertilizers or soil insecticides may weaken crop seedlings and stress crop growth. Resicore used under these conditions could result in crop injury.

Rotational Crop Restrictions:

When Resicore is applied as directed on this label, follow the crop rotation intervals in Table 1. If Resicore is tank mixed or used sequentially with other products, follow the most restrictive product's crop rotation interval.

Table 1: Time Interval between Resicore Application and Replanting or Planting of Rotational Crop

| Rotational crop | Rotational Interval |
|---|---------------------|
| Field corn Field seed corn Field silage corn Yellow popcorn | Anytime (1) |
| Wheat | 4 months |
| Alfalfa (2) Barley Millet (pearl and proso) Oats Rice Rye Sorghum (3) Soybean (4, 5, 6) Sunflower (4) | 10.5 months (7, 8) |
| All other rotational crops | 18 months |

- (1) Do not make a second application of Resicore if the original corn crop is lost.
- (2) **California, Idaho, Nevada, Oregon, Utah, and Washington:** 12 months, areas receiving greater than 18 inches of annual rainfall, excluding irrigation; 18 months, areas receiving less than 18 inches of annual rainfall, excluding irrigation. **All other states:** 10.5 months.
- (3) **California, Idaho, Nevada, Oregon, Utah, and Washington:** 12 months. **All other states:** 10.5 months.
- (4) **Florida:** 18 months. **California, Idaho, Nevada, Oregon, Utah, and Washington:** 12 months, areas receiving greater than 18 inches of annual rainfall, excluding irrigation; 18 months, areas receiving less than 18 inches of annual rainfall, excluding irrigation. **All other states:** 10.5 months for soils greater than 2% organic matter AND rainfall more than 15 inches during 12 months following applications; 18 months for soils less than 2% organic matter AND rainfall less than 15 inches during 12 months following applications.
- (5) Injury may occur to soybeans planted the year following application on soils having a calcareous subsurface layer, if products containing atrazine were used at rates above 0.75 lb ai atrazine per acre in tank mixtures and/or sequentially with Resicore.
- (6) In eastern parts of the Dakotas, Kansas, western Minnesota and Nebraska, do not rotate to soybeans for 18 months following application if products containing atrazine were used in tank mixtures and/or sequentially with Resicore and the total atrazine rate applied was more than 2.0 pounds active ingredient per acre, or equivalent band application rate, or soybean injury may occur.
- (7) If Resicore is applied after June 1, rotating to crops other than corn or grain sorghum the next spring may result in crop injury.
- (8) In the High Plains and Intermountain areas of the West, where rainfall is sparse and erratic or where irrigation is required, use Resicore only when corn or sorghum is to follow field corn, or a crop of untreated corn or sorghum is to precede other rotational crops.

Rotation to Non-food Winter Cover Crops

Following harvest of corn treated with Resicore, only non-food or non-feed winter cover crops (with the exception of winter wheat) may be planted. Do not graze or harvest rotational cover crops for food or animal feed for 18 months following the last application of Resicore. This prohibition does not apply to winter wheat, which may be planted 4 months following the last application of Resicore, or to nongrass animal feeds, which may be planted 9 months after the last application of Resicore.

Weed Resistance Management Guidelines

Acetochlor, mesotrione, and clopyralid, the active ingredients in Resicore, are Group 15, Group 27, and Group 4 herbicides, respectively, based on the mode of action classification system of the Weed Science Society of America. Any weed population may contain biotypes naturally tolerant or resistant to Group 15, 27, or 4 herbicides. Such resistant weed plants may not be effectively managed using Group 15, 27, or 4 herbicides but may be effectively managed utilizing another herbicide from a different Group and/or by using cultural or mechanical practices. However, any herbicide mode of action classification by itself may not adequately control specific weed biotypes that are resistant to specific herbicides. Consult your state cooperative extension service, professional consultants, or other qualified authorities to determine appropriate actions for treating specific resistant weeds. Resicore contains three herbicide active ingredients and three modes of action that provide overlapping control for many key weeds and thus can be a very effective component of a weed resistance management strategy.

Best Management Practices

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is recommended. A diversified weed management program may include the use of multiple herbicides and applications with different modes of action and overlapping weed spectrums with or without tillage operations and/or other cultural practices. Research has demonstrated the importance of using full labeled rates and following use recommendations to minimize selection for resistance. Scouting fields after an herbicide application is important because it can facilitate the early detection and identification of weed shifts and/or weed resistance and thus provide direction on future weed management practices. One of the best ways to contain resistant populations is to adjust management practices to prevent weeds from reproducing by seed or vegetative propagules. Cleaning equipment between sites and avoiding movement of plant material between sites may minimize the spread of resistant weed seed.

General principles of herbicide resistance management:

1. Apply integrated weed management practices. Use multiple herbicide modes-of-action with overlapping weed spectrums in rotation, sequences, or mixtures.
2. Use the full specified herbicide rate and proper application timing for the hardest to control weed species present in the field.
3. Scout fields after herbicide application to ensure control has been achieved. Eliminate weed escapes to avoid allowing weeds to reproduce by seed or vegetative propagules.
4. Monitor sites and clean equipment between sites.

For annual cropping situations also consider the following:

- Start with a clean field and control weeds early by using a burndown herbicide treatment or tillage in combination with a soil-applied residual herbicide, as appropriate.
- Use cultural practices such as cultivation and crop rotation, where appropriate.
- Utilize good agronomic principles that enhance crop competitiveness.
- Use new commercial seed that is as free of weed seed as possible.

Report any incidence of repeated non-performance of this product on a particular weed to your Local Dow AgroSciences representative, retailer, or Extension specialist.

Application Directions

Carriers

Liquids:

- **Preemergence Applications:** Either clean water or liquid fertilizers, excluding suspension fertilizers, may be used as liquid carriers for preplant or preemergence applications of Resicore. If fluid fertilizers are used, a physical compatibility test must be done **before combining** in the spray tank. See Appendix I for details of the compatibility testing procedure. Even if Resicore is physically compatible with a fluid fertilizer, constant agitation is necessary to maintain a uniform mixture during application.
- **Postemergence Applications:** Use only clean water as the carrier when applying Resicore after field corn emergence; do not make postemergence applications using liquid fertilizer as the carrier or severe crop injury may occur. Do not apply Resicore to emerged yellow popcorn or severe crop injury may occur.

Dry Bulk Fertilizer: Resicore may be impregnated on dry bulk fertilizer and applied as the fertilizer is spread. See **Appendix I** for directions and restrictions including which fertilizers are compatible.

Adding Resicore to the Spray Tank

The spray tank must be clean, thoroughly rinsed and decontaminated before adding either Resicore alone or with tank mix combinations. If water is used as the carrier, use clean water.

Resicore Applied Alone: When Resicore is used alone, add the specified amount of Resicore to the spray tank when the tank is half filled with carrier and then add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform mixture.

Resicore Applied in Tank Mixtures: Refer to the sections of this label for recommended tank mixes. Always refer to labels of the tank mix partners for mixing directions and precautions. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions and precautionary language of the products in the mixture (for example, first aid from one product, spray drift management from another). Do not exceed label dosage rates nor combined maximum seasonal doses for acetochlor, mesotrione, or clopyralid. Resicore cannot be mixed with any product bearing a label prohibition against such mixing. If a tank mixture is used, a compatibility test must be done. See **Appendix II** for details on the procedure for such a test.

If the tank mix partner is compatible, fill the tank half full of carrier. Start and continue agitation throughout mixing and spraying operation. All return lines to the spray tank must discharge below the liquid level to prevent foaming. Prepare the tank mix components and add them in the following order by formulation type:

1. If a wettable powder or dry flowable formulation is used, make a slurry with water and add it slowly through the screen into the tank. Agitate during the procedure.
2. If a flowable formulation is used, add slowly through screen into the tank. Mixing and compatibility may be improved when the flowable is diluted with water before adding to the tank.
3. Add Resicore.
4. Add any other tank mix products next, with emulsifiable concentrates added last.
5. Add adjuvants last, if needed.
6. Complete filling the sprayer tank and continue agitation. Apply as soon as possible after spray mixture is prepared. Do not leave mixture in spray tank overnight without agitation or unattended.

Note: For all tank mixtures, maintain agitation during mixing and throughout application to ensure the spray mixture remains uniformly suspended. If the spray mixture is allowed to settle at any time, thorough agitation is required to resuspend the mixture before spraying is resumed.

Adjuvants

When an adjuvant is to be used with this product, the use of an adjuvant that meets the standards of the Chemical Producers and Distributors Association (CPDA) adjuvant certification program is recommended.

Use of adjuvants with Resicore applied prior to weed emergence is not necessary or recommended.

Where Resicore is applied after field corn has emerged, a non-ionic surfactant (NIS) at 0.25% v/v (1 quart/100 gallons) may be used. A crop oil concentrate (COC) may also be used at a rate not to exceed 1.0% (1 gallon/100 gallons) or not more than the equivalent of 1.0 quart per acre. The use of crop oil concentrate (COC) may result in temporary crop injury. Do not apply Resicore to yellow popcorn after the crop has emerged or severe crop injury may occur.

Do not use nitrogen based adjuvants (AMS or UAN) or methylated seed oil (MSO) with Resicore when applied alone to emerged field corn or when Resicore is applied as a postemergence tank mixture with other products (except for the inclusion of AMS in tank mixtures containing glyphosate or glufosinate, as directed on those product labels), unless directed for a specific tank mix on this label or as part of a supplemental Resicore label.

Any of the above adjuvants may be used at a preplant or preemergence application timing (i.e., where the corn crop has not yet emerged) to enhance burndown activity on existing weeds.

Spray Equipment

Ground Application:

Spray nozzles should be uniformly spaced, the same size and type, and provide accurate and uniform application. Use spray nozzles that provide medium to coarse droplet size to avoid spray drift yet provide good coverage. Ensure that all in-line strainer and nozzle screens in the sprayer are 50-mesh or coarser. Use a pump that can maintain an operating pressure of at least 35-40 psi at the nozzles and provide proper agitation within the spray tank to keep the product dispersed. Lower pressures may be used with extended range or drift reduction nozzles as long as adequate spray coverage is maintained. Always make sure that agitation is maintained until spraying is completed, even if stopped for only brief periods of time. If agitation is stopped for more than five minutes, resuspend the spray solution by running at full agitation prior to spraying.

Preplant or Preemergence Application: Apply in a spray volume of 10-80 gallons per acre.

Postemergence Application: Good spray coverage of weeds is essential for optimum weed control. Boom height for broadcast over-the-top applications should be based on the height of the crop but set only high enough to provide uniform coverage with the spray nozzle used. Apply in a spray volume of 10-30 gallons per acre. When weed foliage is dense or corn approaches 11 inches in height, use a minimum spray volume of 15 gallons per acre. Use 80° or 110° flat fan nozzles for optimum postemergence coverage. Nozzles may be angled forward 45° to enhance penetration of the crop and provide better coverage. Do not use floodjet nozzles or controlled droplet application equipment for postemergence applications.

Dry Bulk Fertilizer: When applying Resicore impregnated on dry bulk fertilizer, use a minimum of 200 pounds of dry bulk fertilizer per acre. See **Appendix I** for directions and restrictions.

Use Directions

Resicore may be used for early preplant (EPP), preplant surface, preplant incorporated (PPI), or preemergence (PRE) application for control of many annual grasses and broadleaf weeds in field corn, field seed corn, field silage corn, and yellow popcorn. Resicore may also be applied postemergence for the control of broadleaf weeds in field corn, field seed corn, and field silage corn. This product will not consistently control grasses that are emerged at the time of application; utilize tank mixtures or sequential applications of herbicides registered for postemergence control of grass weeds in corn. Do not apply Resicore to emerged yellow popcorn or severe crop injury may occur.

See Tables 4 and 5 for a list of weeds controlled by Resicore.

Tillage Systems

Resicore may be used in conventional, reduced, and no-tillage corn systems. Weed control will be greatest when applications are made as close to planting as possible. Thoroughly till soil or make an application of a burndown herbicide to control germinating and emerged weeds. The registrant recommends that a burndown herbicide, such as paraquat, glyphosate, glufosinate, and/or 2,4-D be tank mixed with Resicore in reduced, minimum, and no-tillage systems if weeds are present at application and corn has not yet emerged.

Soil Texture and Organic Matter

The texture and organic matter of the soil on which the application of Resicore is to be made must be known or determined prior to application. The use rate of Resicore is determined by the soil texture grouping (coarse, medium, or fine; see Table 2) and percent organic matter content.

Table 2: Soil Texture Groupings for Resicore Use Rate Selection.

| Coarse | Medium | Fine |
|------------|-----------------|-----------------|
| Sand | Loam | Silty Clay Loam |
| Loamy Sand | Silt Loam | Clay Loam |
| Sandy Loam | Silt | Sandy Clay |
| | Sandy Clay Loam | Silty Clay |
| | | Clay |

Resicore Use Rates

Resicore use rates based on soil texture and organic matter content are outlined in Table 3. Do not apply Resicore more than 28 days prior to planting or to field corn taller than 11 inches in height. Resicore is not recommended for use on soils with greater than 10% organic matter or poor weed control may result.

Table 3: Resicore Use Rates by Soil Texture and Organic Matter Content.

| Soil Texture | Rate Per Acre (Quarts)* | |
|--------------|-----------------------------|---------------|
| | Soil Organic Matter Content | |
| | Less than 3% | 3% or Greater |
| Coarse | 2.25 | 2.50 |
| Medium | 2.50 | 2.75 |
| Fine | 2.75 | 3.00 |

*An additional 0.25 quart per acre may be used in areas of heavy weed infestation. Do not apply more than 3.25 quarts per acre of Resicore per season.

Resicore Applied Alone

Early Preplant (EPP) or Preplant Surface:

Resicore may be applied up to 28 days prior to planting. The registrant recommends that a burndown herbicide, such as paraquat, glyphosate, glufosinate, and/or 2,4-D be tank mixed with Resicore to control emerged weeds.

Preplant Incorporated (PPI):

For PPI application, uniformly incorporate Resicore into the upper 2 inches of the soil using a field cultivator, disc, or spring tooth harrow any time within 14 days prior to planting. Improper incorporation, excessive crop residues, or poor soil tilth may result in erratic, streaked, or otherwise unsatisfactory weed control. Do not mix Resicore deeper than 2 inches into the soil and avoid moving or shaping soil after incorporation.

Preemergence (PRE) Surface:

Resicore may be applied to the soil surface as a broadcast application after planting but prior to corn emergence. Precipitation or sprinkler irrigation of at least 0.25 inch is required to bring Resicore into contact with germinating weed seeds. If rainfall or sprinkler irrigation does not occur within 7 days after application, weed control may be improved by using a rotary hoe or similar equipment to incorporate the herbicide. Incorporation equipment should be operated at a shallow depth to avoid disturbance of germinating corn seed. Erratic weed control resulting from exposure of untreated soil may occur if surface soil is moved or reshaped after incorporation.

Postemergence:

Resicore may be applied after field corn emergence. See the “**Adjuvants**” section of this label for adjuvant recommendations. Do not apply postemergence to field corn with liquid fertilizer as the carrier or severe crop injury may occur. Apply this treatment when broadleaf weeds are less than 3 inches tall. Occasional field corn leaf burn may result but this will not affect later corn growth or yield. Postemergence applications to field corn must occur before the crop reaches 11 inches in height. Do not apply Resicore to emerged yellow popcorn or severe crop injury may occur.

Resicore will not provide consistent control of emerged grass weeds. For control of emerged grass weeds, a grass herbicide tank mixture may be required (see tank mix section of this label). Tank mixtures with atrazine can improve control of emerged annual grass and broadleaf weeds. Refer to atrazine product labels for use directions and restrictions and weeds controlled.

Split Application:

Resicore may be applied as a split application in field corn, field seed corn, or field silage corn. For a split application program, apply approximately half (50%) of the labeled rate of Resicore (for the soil type, from Table 3) prior to crop emergence, followed by a second Resicore application at approximately half (50%) of the labeled rate, but a **minimum of 1.25 quarts per acre**, as a post application after corn emergence. The total amount of Resicore applied in the split application program cannot exceed the labeled rates by soil type listed in Table 3 or 3.25 quarts per acre per season. Refer to the **Postemergence** section above for instructions on postemergence applications.

Resicore Tank Mix Combinations

Use of Spray Adjuvants with Tank Mixtures

When Resicore is used as a preemergence herbicide, and before weeds have emerged, spray adjuvants

have little or no effect on performance and are not recommended. In burndown situations, where weeds have emerged and the corn has not, an adjuvant(s) may be used with Resicore applied alone or when applied in tank mixtures with a burndown herbicide, as allowed on the individual product labels. Use only those adjuvants approved for agricultural crop use. See the “**Adjuvants**” section of this label for further instructions.

Burndown Combinations Applied Before Corn Emergence in Reduced Tillage Systems

In reduced or no-till corn prior to crop emergence, Resicore tank mixtures with glyphosate, glufosinate, or paraquat can be used to burn down susceptible emerged weeds. For best results, such tank mixtures should be applied to emerged weeds that are less than 6 inches tall. Consult the glyphosate, glufosinate, or paraquat product labels for further information and restrictions on use rates, application timings, and weeds controlled.

Preplant and Preemergence Tank Mixtures Applied Before Corn Emergence

In conventional, reduced, or no-till corn prior to crop emergence, the following tank mix partners may be applied by the same methods and at the same timings as Resicore unless otherwise specified in the tank mix product label:

- Glyphosate, glufosinate, or paraquat, per product labels, to control susceptible emerged weeds.
- Atrazine, to improve broadleaf and grass weed control.

Follow all tank mix product label directions and restrictions and perform a compatibility test prior to spraying the mixture. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions and precautionary language of the products in the mixture (for example, first aid from one product, spray drift management from another). Tank mixtures with 2,4-D are allowed but extreme care must be taken to ensure tank mix compatibility, as 2,4-D products can vary widely in their compatibility properties.

Postemergence Tank Mixtures Applied After Field Corn Emergence

In conventional, reduced, or no-till field corn after crop emergence, the following tank mix partners may be applied by the same methods and at the same timings as Resicore unless otherwise specified in the tank mix product label:

- Atrazine, to improve broadleaf and grass weed control.
- For emerged grass control, follow all tank mix product (such as Accent Q®, Basis® brands, and Steadfast® Q) label directions and restrictions and perform a compatibility test prior to spraying the mixture.

Consult the “**Adjuvants**” section of this label for recommendations when applying Resicore alone or in tank mixtures to emerged field corn. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions and precautionary language of the products in the mixture (for example, first aid from one product, spray drift management from another). Do not apply Resicore tank mixtures to emerged yellow popcorn or severe crop injury may occur.

Resicore Programs for Glyphosate Tolerant Corn

- **Resicore Preemergence Followed by Glyphosate Postemergence:**

Resicore may be applied preemergence at a rate as low as 1.8 quarts per acre as part of a two-pass weed control system when followed by a postemergence application of a glyphosate product, such as Durango™ DMA, that is registered for use in glyphosate tolerant field corn. Use higher Resicore rates, up to the maximum amounts listed by soil type in Table 3, if there is a history of glyphosate-resistant weeds in the field. Atrazine may also be tank mixed with Resicore to improve broadleaf and grass weed control. When used in this way, Resicore will provide reduced competition from the weeds listed in Tables 4 and 5 for a period of 30 or more days,

improving the timing flexibility and effectiveness of the follow-up glyphosate application. Follow all use directions and restrictions on the glyphosate and atrazine product labels.

- **Resicore + Glyphosate Tank Mixture Applied Postemergence:**

Resicore may be applied postemergence at a rate as low as 1.25 quarts per acre in a tank mixture with a solo glyphosate product, such as Durango DMA, that is registered for use in glyphosate tolerant field corn. To minimize weed competition effects on the crop, apply this mixture to 1 to 2 inch tall weeds and before the corn reaches 11 inches in height. If the glyphosate product includes an adjuvant system (does not call for additional adjuvants), only spray-grade ammonium sulfate (AMS) at 8.5 lbs. per 100 gallons should be added to this tank mixture. If the glyphosate product label calls for an adjuvant in addition to AMS, add a non-ionic surfactant (NIS) at 0.25% v/v and AMS to the mixture. Do not add urea ammonium nitrate (UAN), crop oil concentrate (COC), or methylated seed oil (MSO) type adjuvants to the mixture or crop injury may occur. Follow all use directions and restrictions on the glyphosate product label.

Resicore Programs for Glufosinate Tolerant Corn

- **Resicore Preemergence Followed by Glufosinate Postemergence:**

Resicore may be applied preemergence at rate as low as 1.8 quarts per acre as part of a two-pass weed control system when followed by a postemergence application of a glufosinate product that is registered for use in glufosinate tolerant field corn. Use higher Resicore rates, up to the maximum amounts listed by soil type in Table 3, if there is a history of glufosinate-resistant weeds in the field. Atrazine may also be tank mixed with Resicore to improve broadleaf and grass weed control. When used in this way, Resicore will provide reduced competition from the weeds listed in Tables 4 and 5 for a period of 30 or more days, improving the timing flexibility and effectiveness of the follow-up glufosinate application. Follow all use directions and restrictions on the glufosinate and atrazine product labels.

- **Resicore + Glufosinate Tank Mixture Applied Postemergence:**

Resicore may be applied postemergence at a rate as low as 1.25 quarts per acre in tank mixture with a solo glufosinate product that is registered for use in glufosinate tolerant field corn. To minimize weed competition effects on the crop, apply this mixture to 1 to 2 inch weeds and before the corn reaches 11 inches in height. Ammonium sulfate (AMS) may be added at 8.5 lbs. per 100 gallons as a spray adjuvant as directed on the glufosinate product label but AMS should be the only adjuvant added to this tank mixture. Do not add urea ammonium nitrate (UAN), crop oil concentrate (COC), or methylated seed oil (MSO) type adjuvants to the mixture or crop injury may occur. Follow all use directions and restrictions on the glufosinate product label.

Cultivation

If weeds develop, a shallow cultivation or rotary hoeing will generally result in improved weed control. If Resicore was incorporated, cultivate at less than half the depth of incorporation.

If cultivation is necessary due to soil crusting, compaction, or escaped weeds, adjust equipment to a shallow depth and minimize soil movement. This will decrease the possibility of diluting or moving the herbicide from the weed control zone.

Weeds Controlled

Resicore applied as directed in this label will control or suppress the weeds listed in Tables 4 and 5. Additional weeds may be controlled with tank mixtures. See the "**Resicore Tank Mix Combinations**" section of this label for recommended tank mix combinations. Always consult the tank mix product labels for specific use rates and directions. Always follow the most restrictive label when tank mixing Resicore with another product. Resicore may be tank mixed with any other registered corn product as long as compatibility is verified and tank mixing is not prohibited by the tank mix product label.

Table 4: Weeds Controlled or Partially Controlled by Preplant or Preemergence Applications of Resicore.

| Grasses and Sedges | C = Control PC = Partial Control | Broadleaves | C = Control PC = Partial Control |
|---------------------------------|---|---------------------------|---|
| Barnyardgrass | C | Amaranth, Palmer | C* |
| Crabgrass species | C | Amaranth, Powell | C |
| Crowfootgrass | C | Amaranth, spiny | C |
| Cupgrass, prairie | C | Bedstraw, catchweed | PC* |
| Cupgrass, Southwestern | C | Beggarweed, Florida | C |
| Cupgrass, woolly | PC | Buckwheat, wild | C* |
| Foxtail, bristly | C | Buffalobur | C |
| Foxtail, giant | C | Carpetweed | C |
| Foxtail, green | C | Chickweed, common | C |
| Foxtail, robust (purple, white) | C | Clover, red | C |
| Foxtail, yellow | C | Cocklebur, common | C* |
| Goosegrass | C | Deadnettle, purple | C |
| Johnsongrass, seedling | PC | Devil's-claw | C |
| Millet, foxtail | C | Galinsoga | C |
| Millet, wild proso | PC | Groundcherry, annual | PC* |
| Nutsedge, yellow | C | Groundcherry, cutleaf | PC* |
| Oat, wild | PC* | Henbit | C |
| Panicum, browntop | C | Horseweed (marestail) | C |
| Panicum, fall | C | Jimsonweed | C |
| Panicum, Texas | PC | Kochia | C* |
| Rice, red | C | Lambsquarters, common | C |
| Sandbur, field | PC | Mallow, Venice | C |
| Shattercane | PC | Morningglory, entireleaf | C* |
| Signalgrass, broadleaf | C* | Morningglory, ivyleaf | C* |
| Signalgrass, narrowleaf | C | Morningglory, pitted | C* |
| Sprangletop, red | C | Morningglory, tall | C* |
| Starbur, bristly | C | Mustard, wild | C |
| Wheat, volunteer | PC* | Nightshade, black | C |
| Witchgrass | C | Nightshade, eastern black | C |
| | | Nightshade, hairy | C |
| | | Pigweed, redroot | C |
| | | Pigweed, smooth | C |
| | | Pigweed, tumble | C |
| | | Puncturevine | C* |
| | | Purslane, common | C |
| | | Pusley, Florida | C |
| | | Radish, wild | C |
| | | Ragweed, common | C |
| | | Ragweed, giant | C* |
| | | Sesbania, hemp | C |

| | | |
|--|-------------------------|-----|
| | Shepherd's-purse | C |
| | Sicklepod | C* |
| | Sida, prickly | PC* |
| | Smartweed, ladysthumb | C |
| | Smartweed, Pennsylvania | C |
| | Sunflower, common | C* |
| | Velvetleaf | C |
| | Waterhemp, common | C* |
| | Waterhemp, tall | C* |
| | Wormwood, biennial | C* |

*The addition of atrazine at specified label rates may improve control.

Thoroughly till soil or make an application of a burndown herbicide to control germinating and emerged weeds. Plant crop immediately after tillage.

If a significant rainfall does not occur within 7 days after application, weed control may be reduced. If irrigation is available, apply 0.25-0.75 inch of water. If irrigation is not available, a uniform shallow cultivation is recommended as soon as weeds emerge.

Table 5: Weeds Controlled or Partially Controlled by Postemergence Applications of Resicore.

| Grasses and Sedges | C = Control PC = Partial Control | Broadleaves | C = Control PC = Partial Control |
|-------------------------------------|---|-------------------------------|---|
| Crabgrass, large ¹ | C* | Amaranth, Palmer | C* |
| Nutsedge, yellow | PC* | Amaranth, Powell | C |
| Signalgrass, broadleaf ¹ | C* | Amaranth, spiny | C |
| | | Alfalfa, volunteer (seedling) | PC* |
| | | Atriplex | C |
| | | Beans, volunteer | C* |
| | | Bedstraw, catchweed | PC* |
| | | Beggarweed, Florida | C |
| | | Buckwheat, wild | C* |
| | | Buffalobur | C |
| | | Burcucumber | PC* |
| | | Carpetweed | C |
| | | Carrot, wild | PC* |
| | | Chickweed, common | C |
| | | Clover species | C |
| | | Cocklebur, common | C |
| | | Dandelion, common | PC* |
| | | Deadnettle, purple | C |
| | | Devil's-claw | C |
| | | Dock, curly | PC* |
| | | Galinsoga | C |
| | | Groundcherry, annual | C |
| | | Groundcherry, cutleaf | C |

| | | |
|--|---------------------------|-----|
| | Hemp | C |
| | Henbit | C |
| | Horsenettle | C* |
| | Horseweed (marestail) | C* |
| | Jimsonweed | C |
| | Knotweed, prostrate | PC |
| | Kochia | C* |
| | Lambsquarters, common | C |
| | Lentils, volunteer | C* |
| | Mallow, Venice | C* |
| | Morningglory, entireleaf | C* |
| | Morningglory, ivyleaf | C* |
| | Morningglory, pitted | C* |
| | Morningglory, tall | C* |
| | Mustard, wild | C |
| | Nightshade, black | C |
| | Nightshade, eastern black | C |
| | Nightshade, hairy | C |
| | Peas, volunteer | C* |
| | Pigweed, redroot | C |
| | Pigweed, smooth | C |
| | Pigweed, tumble | C |
| | Pokeweed | C* |
| | Potatoes, volunteer | C |
| | Prickly lettuce | PC |
| | Purslane, common | C |
| | Pusley, Florida | C |
| | Radish, wild | C |
| | Ragweed, common | C* |
| | Ragweed, giant | C* |
| | Sesbania, hemp | C |
| | Shepherd's-purse | C |
| | Sicklepod | PC* |
| | Sida, prickly | C* |
| | Smartweed, ladysthumb | C* |
| | Smartweed, Pennsylvania | C* |
| | Soybean, volunteer | C |
| | Sunflower, common | C* |
| | Thistle, Canada | C* |
| | Velvetleaf | C |
| | Waterhemp, common | C* |
| | Waterhemp, tall | C* |
| | Wormwood, biennial | C* |

*The addition of atrazine at specified label rates may improve control.

¹Apply before the weed exceeds 2 inches in height.

Resicore will not provide consistent control of emerged grass weeds. For control of emerged grass weeds, a grass herbicide tank mixture may be required (see “**Resicore Tank Mix Combinations**” section of this label). Tank mixtures with atrazine can improve control of emerged annual grass and broadleaf weeds. Refer to atrazine product labels for use directions, restrictions, and weeds controlled.

Appendix I

Dry Bulk Fertilizer Impregnation

Impregnation of bulk fertilizer is restricted to commercial facilities. On-farm fertilizer impregnation is prohibited. No more than 500 tons of bulk fertilizer can be impregnated per day. No single facility may impregnate fertilizer with this product for more than 30 days per calendar year.

The commercial facility impregnating the dry bulk fertilizer must inform, in writing, the user (applicator) of the dry bulk fertilizer that:

- Applicator must wear long-sleeved shirt, long pants, shoes, and socks
- The restricted entry interval is 12 hours.

All individual state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the Resicore.

Dry bulk fertilizers (Table 6) may be impregnated with this product or the tank mixtures of this product on corn. This product and these tank mixtures must be applied with 200 to 450 pounds of dry bulk fertilizer per acre and shallowly incorporated within 14 days prior to planting. On medium- and fine-textured soils in areas where incorporation is not planned (i.e., reduced tillage situations or in some conventional tillage situations), applications can be made up to 30 days before planting to allow moisture to move the herbicide-fertilizer mixture into the soil. On coarse-textured soils, applications can be made up to 14 days prior to planting. When applying Resicore alone or in tank mixes with dry bulk fertilizers, follow all directions for use and precautions on the respective tank mix product labels regarding rates, soil type, application methods and rotational restrictions. Refer to the table for broadcast rate per acre to determine the application rate per acre for the herbicide treatment to be applied.

Table 6: Approved Dry Fertilizer Ingredients for Use with Resicore.

| Fertilizer | N | P | K |
|----------------------------|----|----|----|
| Ammonium Phosphate-Sulfate | 16 | 20 | 0 |
| Ammonium Sulfate | 21 | 0 | 0 |
| Diammonium Phosphate | 18 | 46 | 0 |
| Monoammonium Phosphate | 11 | 56 | 0 |
| Potassium Chloride | 0 | 0 | 60 |
| Potassium Sulfate | 0 | 0 | 52 |
| Urea [†] | 45 | 0 | 0 |

[†] Some ureas may be phytotoxic when high rates are applied to corn. Use only urea rates known to be safe for corn application.

For impregnating the pesticides on dry fertilizers, use an appropriate mixer equipped with suitable spraying equipment. The spray nozzles should be positioned inside the mixer to provide uniform spray coverage of the tumbling fertilizer. The Resicore should be sprayed uniformly onto the fertilizer using a fine spray pattern. Tank mix components may be applied as separate ingredients with powders and dry flowables added first or they may be mixed in a slurry in the proper ratio and added jointly. Resicore may also be impregnated on the go and applied with pneumatic applicators.

The following table provides a reference to determine the amount of Resicore to be mixed per ton of dry bulk fertilizer for a range of herbicide and fertilizer rates per acre.

Table 7: Resicore Fertilizer Impregnation Rate Conversions.

| Fertilizer Rate (lbs/acre) | Acres Covered (per ton) | Quarts of Resicore per Ton of Fertilizer to Deliver: | | | |
|-------------------------------|----------------------------|--|---------------|---------------|---------------|
| | | 2.25 qts/acre | 2.50 qts/acre | 2.75 qts/acre | 3.00 qts/acre |
| 200 | 10.0 | 22.5 | 25.0 | 27.5 | 30.0 |
| 250 | 8.0 | 18.0 | 20.0 | 22.0 | 24.0 |
| 300 | 6.7 | 15.1 | 16.8 | 18.4 | 20.1 |
| 350 | 5.7 | 12.8 | 14.3 | 15.7 | 17.1 |
| 400 | 5.0 | 11.3 | 12.5 | 13.8 | 15.0 |
| 450 | 4.5 | 10.1 | 11.3 | 12.4 | 13.5 |

To determine the amount of Resicore needed for other fertilizer rates, use the following formula:

$$\frac{\text{Resicore rate (quarts/acre)} \times 2000}{\text{Pounds of fertilizer/acre}} = \text{Quarts of Resicore per ton of fertilizer}$$

If the herbicide/fertilizer mixture is too wet, use of a drying agent is required to provide a dry, free-flowing mixture. For mixtures to be used in spinning-disc applicators, Micro-Cel E calcium silicate powder (Manville, Filtration & Minerals) is recommended for use as a drying agent. Mixtures to be used in pneumatic applicators should use Micro-Cel E or Agsorb 16/30 RVM-MS granular clay (Oil-Dri Corporation). The drying agents should be added separately and uniformly to the prepared pesticide/fertilizer mixture, in a quantity that is sufficient to provide a suitable free-flowing mixture. Generally, less than 2% Micro-Cel E or 5% Agsorb 16/30 RVM-MS by weight is required.

Precaution: To avoid potential for explosion, do not impregnate Resicore on ammonium sorbate nitrate, potassium nitrate, or sodium nitrate fertilizer or fertilizer blends. Do not impregnate on single (0-20-0) or triple (0-46-0) super phosphate. Do not impregnate on agricultural limestone because Resicore will not be absorbed.

Appendix II

Tank Mix Compatibility Test

Complete a compatibility test before tank mixing to ensure compatibility of Resicore with other pesticides. The following test assumes a spray volume of 25 gallons per acre. For other spray volumes, make appropriate changes in the ingredients.

Note: Nitrogen solutions or complete liquid fertilizers, excluding suspension fertilizers, may replace all or part of the water in the spray. Because liquid fertilizers vary, even within the same analysis, **always check compatibility with pesticide(s) before use.** Incompatibility of tank mixtures is more common with mixtures of fertilizer and pesticides.

Test Procedure:

1. Add 1.0 pint of carrier (fertilizer or water) to each of two one quart jars with tight lids. **Note:** Use the same source of water that will be used for the tank mix and conduct the test at the temperature the tank mix will be applied.
2. To one of the jars, add ¼ teaspoon or 1.2 milliliters of a compatibility agent approved for this use, such as Compex or Unite (1/4 teaspoon is equivalent to 2.0 pints per 100 gallons of spray). Shake or stir gently to mix.
3. To both jars, add the appropriate amount of pesticide(s) in their relative proportions based on specified label rates. If more than one pesticide is used, add them separately with dry pesticides first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix.
4. After adding all ingredients, put lids on and tighten and invert each jar ten times to mix. Let the

mixtures stand 15-30 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (a) slurry the dry pesticide(s) in water before addition, or (b) add ½ the compatibility agent to the fertilizer or water and the other ½ to the emulsifiable concentrate or flowable pesticide before addition to the mixture. If incompatibility is still observed, do not use the mixture.

5. After compatibility testing is complete, dispose of any pesticide wastes in accordance with the **Storage and Disposal** section of this label.

Procedure for Testing the Compatibility of Resicore and Tank Mixes with Fluid Fertilizers

Since fluid fertilizers vary, the following procedure is suggested for determining whether Resicore may be combined with a specific fluid fertilizer for spray tank application.

Materials Needed:

- Resicore and any tank mix products.
- Fluid fertilizer to be used.
- Adjuvant for fertilizer tank mix: Use any adjuvant cleared for use on growing crops under 40 CFR 180.1001 to improve the compatibility of Resicore with fluid fertilizers. The adjuvant that provides the best emulsification depends on the specific fertilizer under consideration.
- Two 1 quart, wide mouth glass jars with lid or stopper.
- Measuring spoons (a 25-ml pipette or graduated cylinder provides more accurate measurement).
- Measuring cup, 8 ounces (257 ml).

Procedure:

1. Pour a pint (about 473 ml) of the fluid fertilizer into each of the quart jars.
2. Add Resicore and any tank mix combination to the jars. The order of addition is wettable powders first with mixing, followed by flowables with mixing and the EC's last. The rate of wettable powders and dry flowables is 1½ teaspoon per pound of product per acre to be applied. EC's should be added at the rate of ½ teaspoon for each pint per acre to be applied. Premixing the wettable powders in 1 ounce of water before adding to the pint of fluid fertilizer will improve the compatibility of the final mixture.
3. Add 1/2 teaspoon (2 ml) adjuvant to one of the jars, label it as "with", and mix. The rate of ½ teaspoon per pint is equal to 3 pints of adjuvant per 100 gallons of fluid fertilizer.
4. Close both jars with lids or stoppers and mix the contents by turning the jars upside down ten times.
5. Inspect the surface and body of the mixtures:
 - (a) Immediately after completing the jar inversions
 - (b) After allowing the jars to stand quietly for 30 minutes
 - (c) And then again after turning the jars upside down 10 times after the 30 minute inspection

Evaluation:

If either mixture remains uniform for 30 minutes, the combination may be used. Should either mixture separate after 30 minutes, but readily remix uniformly with 10 jar inversions, the mixture can be used if adequate agitation is maintained in the tank. If the mixture with adjuvant is satisfactory but the mixture without adjuvant is not, be sure to use the adjuvant in the spray tank. Add the adjuvant first at a rate of 3 pints per 100 gallons of fluid fertilizer. Foaming may be minimized by using only moderate agitation. **If non-dispersible oil, sludge, or clumps of solids form in the mixtures, the combination should not be used.**

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