

7969-262

09/11/2013

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

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

Jeffrey H. Birk, Ph.D.  
BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709-3528

SEP 11 2013

Subject: Label amendment to add canola to the rotational crop interval table with a 9-18 mo. PBI  
Product Name: Armezon Herbicide  
EPA Reg. No: 7969-262  
Decision Number(s): 479532

Dear Dr. Birk:

The labeling referred to above, submitted in connection with registration in accordance with FIFRA section 3(C)(5), as amended, is acceptable, provided that you submit and/or cite all data required for reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

A stamped copy of your label is enclosed for your records. This label supersedes all previously accepted labels. You must submit one (1) copy of the final printed label before you release the product for shipment. Products released for shipment after eighteen (18) months from the date of this letter must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA §6(e). Your release for shipment of the product constitutes acceptance of these conditions. If you have questions or concerns regarding this letter, please contact Beth Benbow at (703) 347-8072 or email at [benbow.bethany@epa.gov](mailto:benbow.bethany@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Kathryn V. Montague".

Kathryn V. Montague  
Product Manager 23  
Herbicide Branch  
Registration Division (7505P)



The Chemical Company

Group 27 Herbicide

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ACCEPTED

SEP 11 2013

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 7969-262

# Armezon™

## HERBICIDE

**For postemergence weed control in all types of field corn, popcorn, and sweet corn**

**Active Ingredient:**

topramezone: [3-(4,5-dihydro-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)methanone . . . . . 29.7%

**Other Ingredients:** . . . . . 70.3%

**Total:** . . . . . 100.0%

1 gallon contains 2.8 pounds of topramezone free acid.

EPA Reg. No. 7969-262

EPA Est. No.

**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.)

See inside for complete **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific crop and/or use site restrictions.

**In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).**

**Net Contents:**

BASF Corporation  
26 Davis Drive, Research Triangle Park, NC 27709

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| <b>FIRST AID</b>  |  |
|---|--|
| <b>If in eyes</b>   | <ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>   |
| <b>If swallowed</b>   | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul> |
| <b>If on skin or clothing</b>   | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>   |
| <b>HOTLINE NUMBER</b>   |  |
| Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357). |  |

## **Precautionary Statements**

### **Hazards to Humans and Domestic Animals**

**CAUTION.** Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Harmful if swallowed or absorbed through the skin. Wash thoroughly with soap and water after handling.

### **Personal Protective Equipment (PPE)**

Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for **Category A** on an EPA chemical-resistance category selection chart.

#### **Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves **Category A**
- Shoes plus socks

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 and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **USER SAFETY RECOMMENDATIONS**

#### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

### **Engineering Controls Statement**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the

Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### **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 when disposing of equipment washwater or rinsate. **DO NOT** apply this product through any type of irrigation system.

Product must be used in a manner which will prevent back-siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures, or rinsate.

### **Directions For Use**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This label must be in the possession of the user at time of herbicide application.

**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.

Observe all precautions and limitations in this label and the labels of products used in combination with **Armezon™ herbicide**. The use of **Armezon** not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

Unless otherwise directed in supplemental labeling, all applicable directions, restrictions, precautions, and **Conditions of Sale and Warranty** are to be followed.

BASF Corporation does not recommend or authorize the use of this product in manufacturing, processing, or preparing custom blends with other products for application in crops.

**AGRICULTURAL USE REQUIREMENTS**

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

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves **Category A**
- Shoes plus socks

**STORAGE AND DISPOSAL**

**DO NOT** contaminate water, food or feed by storage or disposal.

**Pesticide Storage**  
Store product in original container only. Store product in a cool, dry place. **DO NOT** store this product under wet conditions. If this product has been stored where freezing temperatures have occurred, agitate or mix contents of container well before use. Avoid cross-contamination with other pesticides.

**Pesticide Disposal**  
Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Handling**  
**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

(continued)

**STORAGE AND DISPOSAL (continued)**

**Container Handling (continued)**

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) 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.

**Triple rinse containers too large to shake (capacity > 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or 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 Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

**Triple rinse as follows:** 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 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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## STORAGE AND DISPOSAL *(continued)*

### Container Handling *(continued)*

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

### Spills

In case of large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

### Steps to take if this material is released into the environment or spilled:

- Wear **Personal Protective Equipment (PPE)** and avoid exposure when managing a spill. (See **Precautionary Statements** section of this label for required PPE.)
- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before reuse.
- Keep spill out of all sewers and open bodies of water.

## Product Information

**Armezon™ herbicide** is a suspension concentrate (SC) herbicide providing systemic postemergence control or growth suppression of emerged broadleaf and grass weeds in field corn (grown for grain, silage, or seed), popcorn (grown for ear, kernel or seed), and sweet corn (grown for ear, kernel or seed). This product may be used on conventional and herbicide-resistant/tolerant corn hybrids. BASF has not tested all inbred lines for tolerance to **Armezon**. Before using **Armezon**, refer to seed company recommendations for use on inbred lines of field corn, popcorn, and sweet corn.

When applied postemergence as directed, **Armezon** will control or suppress the broadleaf weeds listed in **Table 1** and the grass weeds listed in **Table 2**.

To increase weed control spectrum, tank mix **Armezon** with 0.25 to 1.5 lbs active ingredient of atrazine herbicide per acre. Use the lower rates of atrazine for added burn-down of emerged weeds and the higher rates for added weed residual control.

**Armezon** applications must include spray additives. See **Additives** and **Mixing Order** for details.

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**Table 1. Broadleaf Weeds Controlled Postemergence Broadcast**  
(including ALS-resistant<sup>1</sup>, glyphosate-resistant, and triazine-resistant biotypes)

| Common Name               | Scientific Name                 | Armezon™ herbicide Application Rate        |                     |
|---------------------------|---------------------------------|--|---------------------|
|                           |                                 | 0.5 fl oz/A                                | 0.75 to 1.0 fl oz/A |
|                           |                                 | Maximum Weed Size <sup>2</sup><br>(inches) |                     |
| Amaranth, Palmer          | <i>Amaranthus palmeri</i>       | 4  | 6                   |
| Amaranth, Powell          | <i>Amaranthus powellii</i>      | 4  | 6                   |
| Burcucumber               | <i>Sicyos angulatus</i>         | 4  | 6                   |
| Canola, volunteer         | <i>Brassica</i> spp.            | 4  | 6                   |
| Carpetweed                | <i>Mollugo verticillata</i>     | 4  | 6                   |
| Chickweed, common         | <i>Stellaria media</i>          | 2  | 4                   |
| Cocklebur, common         | <i>Xanthium strumarium</i>      | 5  | 8                   |
| Dandelion                 | <i>Taraxacum officinale</i>     | –  | 6*                  |
| Galinsoga, hairy          | <i>Galinsoga ciliata</i>        | 4  | 6                   |
| Henbit                    | <i>Lamium amplexicaule</i>      | 3  | 4                   |
| Horseweed (Marestail)     | <i>Conyza canadensis</i>        | 4  | 6                   |
| Jimsonweed                | <i>Datura stramonium</i>        | 4  | 6                   |
| Kochia                    | <i>Kochia scoparia</i>          | 4  | 6                   |
| Lambsquarters, common     | <i>Chenopodium album</i>        | 4  | 6                   |
| Lettuce, prickly          | <i>Latuca serriola</i>          | 2  | 4                   |
| Mallow, common            | <i>Malva neglecta</i>           | 2  | 3                   |
| Mallow, Venice            | <i>Hibiscus trionum</i>         | 2*   | 3*                  |
| Morningglory              | <i>Ipomoea</i> spp.             | 4*   | 6*                  |
| Mustard                   | <i>Brassica</i> spp.            | 4  | 6                   |
| Nightshade, black         | <i>Solanum nigrum</i>           | 4  | 6                   |
| Nightshade, Eastern black | <i>Solanum ptycanthum</i>       | 4  | 6                   |
| Nightshade, hairy         | <i>Solanum sarrachoides</i>     | 4  | 6                   |
| Pigweed, prostrate        | <i>Amaranthus blitoides</i>     | 4  | 6                   |
| Pigweed, redroot          | <i>Amaranthus retroflexus</i>   | 4  | 6                   |
| Pigweed, smooth           | <i>Amaranthus hybridus</i>      | 4  | 6                   |
| Pigweed, tumble           | <i>Amaranthus album</i>         | 2  | 4                   |
| Pusley, Florida           | <i>Richardia scabra</i>         | 2  | 3                   |
| Ragweed, common           | <i>Ambrosia artemisiifolia</i>  | 4  | 6                   |
| Ragweed, giant            | <i>Ambrosia trifida</i>         | 5  | 8                   |
| Shepherd's-purse          | <i>Capsella bursa-pastoris</i>  | 2  | 4                   |
| Sida, prickly             | <i>Sida spinosa</i>             | 2  | 3                   |
| Smartweed, ladysthumb     | <i>Polygonum persicaria</i>     | 2  | 3                   |
| Smartweed, Pennsylvania   | <i>Polygonum pennsylvanicum</i> | 2  | 3                   |
| Sunflower, volunteer      | <i>Helianthus</i> spp.          | 5  | 8                   |
| Sunflower, wild (common)  | <i>Helianthus annuus</i>        | 5  | 8                   |
| Thistle, Canada           | <i>Cirsium arvense</i>          | 4*   | 6*                  |
| Thistle, Russian          | <i>Salsola iberica</i>          | 2  | 4                   |
| Velvetleaf                | <i>Abutilon theophrasti</i>     | 4  | 8                   |
| Waterhemp, common         | <i>Amaranthus rudis</i>         | 4  | 6                   |
| Waterhemp, tall           | <i>Amaranthus tuberculatus</i>  | 4  | 6                   |

<sup>1</sup>ALS (acetolactate synthase)-resistant weeds include those weeds resistant to imidazolinone, sulfonamide, and/or sulfonylurea herbicides.

<sup>2</sup>For best performance, spray before weeds exceed the maximum stem height or vine length listed in this table.

\*Partial control or suppression

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**Table 2. Grass Weeds Controlled or Suppressed<sup>2</sup> Postemergence Broadcast**  
(including ALS-resistant<sup>1</sup>, glyphosate-resistant, and triazine-resistant biotypes)

| Common Name            | Scientific Name                | Maximum Weed Leaf Stage <sup>3</sup> | Maximum Weed Size <sup>3</sup><br>(inches) |
|------------------------|--------------------------------|--------------------------------------|--|
| Barnyardgrass          | <i>Echinochloa crus-galli</i>  | 4                                    | 4  |
| Crabgrass, large       | <i>Digitaria sanguinalis</i>   | 4                                    | 3  |
| Crabgrass, smooth      | <i>Digitaria ischaemum</i>     | 4                                    | 3  |
| Cupgrass, woolly       | <i>Eriochloa villosa</i>       | 3*                                   | 3*   |
| Foxtail, giant         | <i>Setaria faberi</i>          | 4                                    | 4  |
| Foxtail, green         | <i>Setaria viridis</i>         | 3*                                   | 3*   |
| Foxtail, yellow        | <i>Setaria lutescens</i>       | 3*                                   | 3*   |
| Goosegrass             | <i>Eleusine indica</i>         | 4                                    | 3  |
| Johnsongrass, seedling | <i>Sorghum halepense</i>       | 3*                                   | 4*   |
| Millet, wild proso     | <i>Panicum miliaceum</i>       | 3                                    | 3  |
| Panicum, fall          | <i>Panicum dichotomiflorum</i> | 3*                                   | 3*   |
| Shattercane            | <i>Sorghum bicolor</i>         | 3*                                   | 4*   |
| Signalgrass, broadleaf | <i>Brachiaria platyphylla</i>  | 3*                                   | 3*   |

<sup>1</sup>ALS-resistant weeds include those weeds resistant to imidazolinone and/or sulfonylurea herbicides.

<sup>2</sup>Growth suppression at 0.5 fl oz/A

<sup>3</sup>For best performance, spray before grass exceeds the maximum leaf stage and/or height listed in this table.

\* Growth suppression at 0.75 fl oz/A; control at 1.0 fl oz/A

## Mode of Action

**Armezon™ herbicide** is absorbed by leaves, roots, and shoots and translocated to the growing points of sensitive weeds to control emerged weeds. **Armezon** controls weeds by inhibiting carotenoid biosynthesis (HPPD-inhibitor **Group 27**). Temperatures and moisture conditions for active plant growth are important for optimum **Armezon** activity. **Armezon** application to weeds during periods of stress conditions, such as cold temperatures and/or drought, may result in reduced performance.

## Herbicide Resistance Management

Resistance to **Armezon** or cross-resistance to other HPPD-inhibitor herbicides is known to exist. Repeated applications of a single mode of action in a weed management plan increase the probability of selecting for naturally occurring biotypes\* with less susceptibility to herbicides using that mode of action. Therefore, tank mix **Armezon** with a herbicide having a different mode of action and/or use in a rotation with herbicides having a different mode of action. Other HPPD-inhibitor herbicides include **Balance® Flexx herbicide** (isoxaflutole), **Callisto® herbicide** (mesotrione), and **Laudis® herbicide** (tembotrione).

\* A weed biotype is a naturally occurring individual within a given species that has a slightly different but distinct genetic makeup from other plants.

## Crop Tolerance

Apply **Armezon** during favorable growing conditions for optimum crop tolerance and weed control. Crops under environmental stress are more likely to show injury from any herbicide application. Rarely, plants under these conditions treated with **Armezon** may show transient bleaching of the

portion of the leaves intercepting the spray application. These symptoms are temporary and occur infrequently; crop growth is not affected.

## Cultivation

Avoid disturbing (e.g. cultivation) treated areas for at least 7 days following an application of **Armezon** to allow best herbicide uptake, translocation, and weed control.

## Insecticide Information

**Armezon** may be used sequentially or in combination with soil or foliar applied insecticides registered for use in corn.

## Cleaning Spray Equipment

To avoid injury to sensitive crops, drain and clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions. Triple rinse the equipment before and after applying this product.

## Application Instructions

**Armezon** is effective for postemergence control of annual weeds in conservation or conventional tillage production systems.

**DO NOT** apply **Armezon** within 30 feet of native plant community.

The applicator is responsible for any loss or damage that results from spraying **Armezon** in a manner other than directed in this label. In addition, applicator must follow all applicable state and local regulations and ordinances for spraying.

## Application Rate and Timing

- **DO NOT** exceed a total of 1.0 fl oz per treated acre (0.022 lb topramezone per acre) per growing season.
- **Armezon™ herbicide** can be applied postemergence up to 45 days before corn harvest. **DO NOT** apply after V8 stage of corn growth.
- Apply **Armezon** as a postemergence treatment to corn when weeds are actively growing.
- For optimal weed control, apply **Armezon** before weeds exceed labeled height.
- Apply **Armezon** a minimum of one hour before rainfall or overhead irrigation.

## Ground Application Methods and Equipment

Uniformly apply with properly calibrated ground equipment in 10 or more gallons of water per acre. Use higher water volumes treating larger weeds and/or high-density weed infestation. Weeds must be thoroughly covered with spray. Dense leaf canopies shelter small weeds and can prevent adequate spray coverage. **Armezon** applications should be made with drop nozzles if the crop canopy prevents adequate weed coverage.

## Spray Drift

**DO NOT** apply when weather conditions may cause drift to adjacent crops and vegetation; injury may result if this occurs. To avoid spray drift from treated areas, **DO NOT** make applications when wind speed exceeds 10 mph or during periods of temperature inversions.

Use of larger droplet sizes will reduce spray drift. Agriculturally approved drift-reducing additives may also be used.

## Aerial Application Methods and Equipment

Uniformly apply with properly calibrated aerial equipment in 2 or more gallons of water per acre. Adequate spray volume must be used to provide accurate and uniform distribution of spray particles over the treated area and to avoid drift of spray particles to nontarget areas.

To avoid injury to sensitive crops from drift, aerial applicators must adhere to the following special aerial use directions and precautions:

- Nozzle height above ground must be a maximum of 10 feet.
- Nozzles must be pointed toward the rear of the aircraft. The downward angle of the nozzle should not be greater than 20 degrees.
- To minimize wing-tip vortex roll, nozzles or spray boom must not be located any closer to end of wing or rotor than 3/4 the distance from the center of the aircraft.
- Use a maximum spray pressure of 40 psi.
- A buffer zone must be established between the area to be sprayed and sensitive crops.
- **DO NOT** spray when wind velocity is greater than 5 mph. Coarse sprays (larger droplets) are less likely to drift.

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## Additives

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Postemergence applications of **Armezon** require the addition of an adjuvant and a nitrogen fertilizer source to achieve optimum weed control.

Agriculturally approved drift-reducing additives may be used in applications with **Armezon**.

When an adjuvant is to be used with this product, BASF recommends the use of Chemical Producers and Distributors Association certified adjuvant.

## Adjuvants

Unless specific tank mix directions are given in **Corn Use Directions**, always use a methylated seed oil (MSO) or a petroleum-based or vegetable seed-based oil concentrate (COC) with **Armezon**. For best performance across a wide range of environmental conditions, including when weeds are under moisture and/or temperature stress, use an MSO adjuvant. Apply these oil-based adjuvant concentrates at 1.0 to 1.5 gallons per 100 gallons of water (1.0% to 1.5% volume/volume [v/v]). Use the higher rate when making an application during periods of hot, dry weather.

**AND**

## Nitrogen Fertilizer

Recommended nitrogen-based fertilizers include urea ammonium nitrate (UAN; 28% to 34%) or ammonium phosphate (10-34-0) at 1.25 to 2.5 gallons per 100 gallons of water (1.25% to 2.5% v/v). Instead of a liquid fertilizer, spray grade ammonium sulfate (AMS) at a minimum rate of 8.5 to 17 pounds per 100 gallons of water may be used. Use the higher rate when making application during periods of hot, dry weather.

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## Mixing Instructions

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Before dispensing, shake the **Armezon** container well.

**DO NOT** use liquid fertilizer as a carrier for postemergence applications. Use only water as a carrier.

1. **Water** - Fill the spray tank 1/2 to 3/4 full with clean water and start agitation.
2. **Armezon** - Add required amount to spray tank while agitating.
3. After the **Armezon** has visibly dispersed, add spray additives and fill the remainder of the tank with water.

Limit the amount of spray mixture prepared to that needed for immediate use.

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## Tank Mixing Order

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When tank mixing **Armezon** with recommended herbicides, add the other herbicides and other components in the following order while agitating:

1. **Water** - Fill tank 1/2 to 3/4 full with clean water and start agitation.
2. **Agitation** - Maintain agitation throughout mixing.
3. **Inductor** - If an inductor is used, rinse it thoroughly after each component has been added.



4. **Products in PVA bags** - Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
5. **Water-soluble additives** (including dry and liquid fertilizers such as ammonium sulfate or urea ammonium nitrate)
6. **Water-dispersible products** (such as dry flowables, wettable powders, suspension concentrates, or suspo-emulsions)
7. **Water-soluble products**
8. **Emulsifiable concentrates** (including methylated seed oil adjuvants)
9. **Remaining quantity of water**

Maintain agitation throughout application until spraying is completed. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential to resuspend the mixture before spraying is resumed. Continue agitation while spraying.

### Tank Mixing Information

**Armezon™ herbicide** may be applied sequentially or tank mixed with other herbicides as part of a complete weed control program. Tank mix recommendations are for use only in states where the sequential or tank mix product and application site are registered. Refer to **Corn Use Directions** for more details and for specific tank mix restrictions. Read and follow the applicable **Restrictions and Limitations** and **Directions For Use** on all products included in any tank mix. **The most restrictive labeling applies to tank mixes.**

### Restrictions and Limitations

- **Maximum seasonal use rate - DO NOT** apply more than 1.0 fl oz/A **Armezon** (0.022 lb topramezone per acre) during the growing season.
- In the event of a crop loss because of weather, any corn type can be replanted following an application of **Armezon**. If **Armezon** was tank mixed with other herbicides, the label restrictions for these herbicides must also be followed.
- **DO NOT** apply **Armezon** within 45 days of corn harvest (fresh market sweet corn, silage, fodder, or grain) or after the V8 stage of corn growth, whichever comes first.
- **DO NOT** graze or feed treated corn forage, silage, fodder, or grain for at least 45 days after an application of **Armezon**.

## Rotational Crop Restrictions

The following rotational crops may be planted after applying **Armezon** at the specified rate in corn. Planting earlier than the specified interval may result in crop injury. Avoid overapplication by minimizing overlap of spray swaths and by switching off spray boom when turning (end rows).

| Rotational Crop             | Rotational Interval<br>(months)       |      |      |
|-----------------------------|---------------------------------------|------|------|
|                             | Armezon Application Rate<br>(fl oz/A) |      |      |
|                             | 0.5                                   | 0.75 | 1.0  |
| <b>Corn (all)</b>           | 0                                     | 0    | 0    |
| <b>Cereal grains</b>        | 3                                     | 3    | 3    |
| <b>Grass grown for seed</b> | 3                                     | 3    | 3    |
| <b>Rice</b>                 | 3                                     | 3    | 3    |
| <b>Alfalfa</b>              | 9                                     | 9    | 9    |
| <b>Cotton</b>               | 9                                     | 9    | 9    |
| <b>Grain Sorghum</b>        | 9                                     | 9    | 9    |
| <b>Peanut</b>               | 9                                     | 9    | 9    |
| <b>Potato</b>               | 9                                     | 9    | 9    |
| <b>Soybean</b>              | 9                                     | 9    | 9    |
| <b>Sunflower</b>            | 9                                     | 9    | 9    |
| <b>Canola</b>               | 9                                     | 9    | 18   |
| <b>Dry beans</b>            | 9                                     | 9*   | 18** |
| <b>Pea</b>                  | 9                                     | 9    | 18** |
| <b>Snap beans</b>           | 9                                     | 9*   | 18** |
| <b>Sugar beets</b>          | 9*                                    | 9*   | 18** |
| <b>All other crops</b>      | 18                                    | 18   | 18   |

\* 18 months for the following states: Colorado, Michigan, Minnesota, Montana, Nebraska (west of Highway 83), North Dakota, South Dakota, Wisconsin, and Wyoming

\*\* 9 months for Idaho, Oregon, and Washington excluding cranberry bean

### Corn Use Directions

#### (field corn, popcorn, seed corn, sweet corn)

Apply **Armezon** postemergence on all corn types including conventional, **Clearfield®**, **Roundup Ready®**, and **LibertyLink®** hybrids. In addition, **Armezon** may be applied on inbred lines used in field corn, popcorn and sweet corn seed production. Refer to seed company recommendations before use on inbred lines.

**Armezon** may be used in tank mixtures or sequential applications with other herbicides registered for use in corn. If **Armezon** is tank mixed with other herbicides, follow the label restrictions for the most restrictive tank mix products.

## Tank Mixes

**Armezon™ herbicide** may be tank mixed or applied sequentially with one or more of, but not limited to, the following herbicide products:

- **G-Max Lite™ herbicide**
- **Guardsman Max® herbicide**
- **Outlook® herbicide**
- **Prowl® H<sub>2</sub>O herbicide**
- **Status® herbicide**
- atrazine
- glyphosate (e.g. **Roundup® herbicide**)

**Armezon** tank mixes or sequential applications with products containing mesotrione are not recommended.

## Sequential Herbicide Combinations and Uses

In addition to control of many emerged broadleaf weeds, **Armezon** controls or suppresses growth of several emerged grass weed species. To target a broader spectrum of grasses, use **Armezon** as a sequential postemergence treatment following a preemergence grass herbicide such as **Guardsman Max**, **Outlook**, or **Prowl H<sub>2</sub>O**. **Armezon** may also be used in sequential programs with registered burndown herbicides.

**Armezon** may be applied in sequence with products containing isoxaflutole (e.g. **Balance® Flexx herbicide**) if the isoxaflutole rate used is less than or equal to 0.0625 pound active ingredient per acre (equal to 4 fl ozs/A of **Balance Flexx**).

## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

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