

7969-262

5/5/2011

1 of 3



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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Dr. Jeffrey H. Birk  
BASF Chemical Company  
26 Davis Drive  
Research Triangle Park, NC 27709-3528

MAY 5 2011

Subject: Notification per PR Notice 98-10 – Change Primary Brand Name and 2007-4 -  
Container Disposal  
EPA Reg. No. 7969-262  
Application Dated – April 21, 2011

Proposed Name Change: Armezon Herbicide

Dear Dr. Birk:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 and 2007-4 for the subject product.

The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and 2007-4 and finds that the actions requested falls within the scope of these notifications. The label submitted with the application has been date-stamped "Notification" and will be placed in our records.

If you have any questions regarding this letter, please contact Maggie Rudick of my staff at (703) 347-0257 or [rudick.maggie@epa.gov](mailto:rudick.maggie@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "KVM", with a flourish extending to the right.

Kathryn V. Montegue, Product Manager 23  
Herbicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 7969-262	2. EPA Product Manager Kathryn Montague	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Topramezone 2.8 SC herbicide	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) BASF 26 Davis Drive Research Triangle Park, NC 27709 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	<b>NOTIFICATION</b>  <b>MAY - 5 2011</b>
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)  
 Notification- change primary brand name to (Armezon herbicide), and minor label changes as per PRN 98-10 and updated container disposal statements as per PRN 2007-04. This notification is consistent with the guidance in PR Notice 98-10 and 2007-4 and the requirements of EPA's regulations at 40 CFR 152.46, 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR 152.46, 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. This notification is not subject to a fee under PRIA. Contact Jeff Birk at 919-547-2622 (phone), 919-547-2850 (fax) or by Email at birkj@basf.com

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
				<input checked="" type="checkbox"/> Glass	<input type="checkbox"/> Paper
				Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 and 30 gallons		5. Location of Label Directions <input type="checkbox"/> on label accompanying product	
6. Manner in Which Label is Affixed to Product		<input checked="" type="checkbox"/> Lithograph Paper glued Stenciled		<input type="checkbox"/> Other _____	

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Jeffrey H. Birk	Title Regulatory Manager	Telephone No. (Include Area Code) 919-547-2622
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		<b>6. Date Application Received (Stamped)</b>      
2. Signature 	3. Title Regulatory Manager	
4. Typed Name Jeffrey H. Birk	5. Date April 21, 2011	





The Chemical Company

**NOTIFICATION**

**MAY - 5 2011**

# 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-1*H*-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**

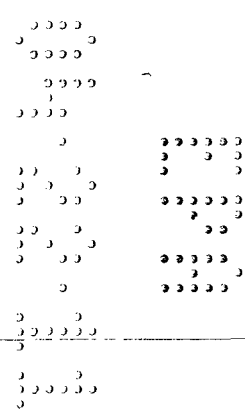
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

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



50613

<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.

#### Environmental 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.

(continued)

**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.

**In Case of Emergency**

In case of large-scale spillage regarding this product, call:

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

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

**Product Information**

**Armezon™ herbicide** is a systemic postemergence herbicide for 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 as directed at the postemergence broadcast rate of 0.75 fl oz/A, **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 lower rates of atrazine for added burndown of emerged weeds and the higher rates for added soil residual control.

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

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**Table 1. Broadleaf Weeds Controlled<sup>1</sup> at 0.75 fl oz/A Postemergence Broadcast**

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

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

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

<sup>a</sup> Growth suppression



**Table 2. Grass Weeds Controlled<sup>1</sup> at 0.75 fl oz/A Postemergence Broadcast**

Common Name	Scientific Name	Maximum Leaf Stage <sup>2</sup>	Maximum Size (inches) <sup>2</sup>
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 <sup>a</sup>	3 <sup>a</sup>
Foxtail, giant	<i>Setaria faberi</i>	4	4
Foxtail, green	<i>Setaria viridis</i>	3 <sup>a</sup>	3 <sup>a</sup>
Foxtail, yellow	<i>Setaria lutescens</i>	3 <sup>a</sup>	3 <sup>a</sup>
Goosegrass	<i>Eleusine indica</i>	4	3
Johnsongrass, seedling	<i>Sorghum halepense</i>	3 <sup>a</sup>	4 <sup>a</sup>
Millet, wild proso	<i>Panicum miliaceum</i>	3	3
Panicum, fall	<i>Panicum dichotomiflorum</i>	3 <sup>a</sup>	3 <sup>a</sup>
Shattercane	<i>Sorghum bicolor</i>	3 <sup>a</sup>	4 <sup>a</sup>
Signalgrass, broadleaf	<i>Brachiaria platyphylla</i>	3 <sup>a</sup>	3 <sup>a</sup>

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

<sup>2</sup>For best performance, spray before grass exceeds the maximum leaf stage and/or height listed in this table.

<sup>a</sup>Growth suppression

### 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). Temperatures and moisture conditions for active plant growth are important for optimum **Armezon** activity. **Armezon** applications to weeds during periods of stress conditions, such as cold temperatures and/or drought, may result in reduced performance.

### Herbicide Resistance Management

No 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® herbicide** (isoxaflutole) and **Callisto® herbicide** (mesotrione).

\* 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 0.75 fl oz per treated acre per growing season.
- **Armezon** can be applied postemergence up to 45 days prior to corn harvest.
- Apply **Armezon** as a postemergence treatment to corn when weeds are actively growing.

- For optimal weed control, apply **Armezon™ herbicide** 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. Flat-fan nozzle tips are recommended for postemergence applications. A spray pressure of 20 to 40 psi is recommended.

**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 speeds exceed 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 Order**

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Mix **Armezon** thoroughly in container before dispensing.

Liquid fertilizer as a carrier for postemergence applications of **Armezon** is not recommended. 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.

**Tank Mix Preparation**

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

1. **Water** - Fill spray tank 1/2 to 3/4 full with clean water.
2. **Soluble packet products** - Mix thoroughly.
3. **Water-dispersible products** (such as suspension concentrates [SC; **Armezon**], suspo-emulsions, wettable powders [WP], dispersible granules [DG], dry flowables [DF], or liquid flowable [LF] formulations) - Mix thoroughly.
4. **Emulsifiable concentrate (EC) products**
5. **Spray adjuvants**
6. **Water** - While agitating, fill the remainder of the tank with water.

### 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 0.75 fl oz/A **Armezon** (0.0164 lb ai/acre) during the growing season.
- In the event of a crop loss due to 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).
- **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 Interval (months) Following Armezon Application

Plant-back Interval (months)	Crops
Anytime	Corn – All types of field corn, sweet corn and popcorn
3	Cereal crops – wheat, barley, oats, and rye
9	Alfalfa, cotton, pea, peanut, potato, sorghum, sunflower Soybean – except for geographic areas defined in <b>18</b> months category
18	Soybean - Michigan, Minnesota, North Dakota, South Dakota, Wisconsin; Illinois (north of I-80), Iowa (north of I-80), Nebraska (north of Hwy 92) All other crops not listed in categories above

### Corn Use Directions (field, pop, seed, sweet)

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.

## Armezon™ herbicide Postemergence Application

### 0.75 fl oz/A

- Aim® herbicide
- Basagran® herbicide
- Bicep II Magnum® herbicide
- Bicep Lite II Magnum® herbicide
- Buctril® herbicide
- Cinch® herbicide
- Clarity® herbicide<sup>1</sup>
- Degree® herbicide
- Degree Xtra® herbicide
- Distinct® herbicide<sup>1</sup>
- Dual II Magnum® herbicide
- G-Max Lite™ herbicide
- Guardsman Max® herbicide
- Harness® herbicide
- Harness® Xtra herbicide
- Hornet® herbicide
- Keystone® herbicide
- Keystone® LA herbicide
- Marksman® herbicide<sup>1</sup>
- Outlook® herbicide
- Permit® herbicide
- Prowl® H<sub>2</sub>O herbicide
- Require® Q (mp) herbicide
- Resolve® Q (mp) herbicide
- Resource® herbicide
- Status® herbicide
- Stinger® herbicide
- Surpass® herbicide
- TopNotch® herbicide
- 2,4-D<sup>1</sup>
- atrazine

### 0.5 to 0.75 fl oz/A\*

- Accent® herbicide
- Ignite® 280 herbicide<sup>2</sup>
- Lightning® herbicide
- Option® herbicide
- Roundup® brands
- Steadfast® herbicide
- Stout® herbicide
- Touchdown® brands
- glyphosate brands

<sup>1</sup> Use of methylated seed oil (MSO) or crop oil concentrate (COC) in tank mixes of **Armezon** plus 2,4-D, **Clarity**, **Distinct**, or **Marksman** may result in crop injury if applied during periods of cold, wet weather or hot and/or humid weather. Under these environmental conditions, the use of a nonionic surfactant in place of an oil-based adjuvant is recommended.

<sup>2</sup> When tank mixed with these products, use spray additives as recommended on these partner product labels.

\* **Armezon** may be applied at a reduced rate of 0.5 to 0.75 fl oz/A to provide additional control of emerged broadleaf weeds when used in tank mixes with listed postemergence herbicides. For best performance on targeted broadleaf weeds, **DO NOT** exceed the maximum labeled weed height found in **Table 1**.

**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 **Outlook**, **Prowl**, **Guardsman Max**, **Dual II Magnum**, **Harness**, or **Surpass**. **Armezon** may also be used in sequential programs with registered burn-down herbicides.

**Armezon** may be applied in sequence with products containing isoxaflutole (e.g. **Balance® Pro herbicide**) if the isoxaflutole rate used is less than or equal to 0.0625 pound active ingredient per acre (equal to 2 fl ozs/A of **Balance Pro**).

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

