



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OCT 29 2003

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Ms. Rebecca M. Ashley  
E. I. DuPont de Nemours and Company  
DuPont Crop Protection  
P. O. Box 30  
Newark, DE 19714-0030

Dear Ms. Ashley:

Subject: DuPont Steadfast ATZ Herbicide (Revise Label Including Atrazine Language)  
EPA Registration No. 352-619  
Application Dated August 26, 2003

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable, provided you make the following changes before you release the product for shipment.

1. Add the following paragraph to your Environmental Hazards section.

"This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters."

2. Delete the instructions referring to aircraft from your Spray Drift Management section, since aerial application is prohibited.

Submit three (3) copies of your final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records.

Sincerely,

*James A. Tompkins*  
James A. Tompkins  
Product Manager 25  
Herbicide Branch  
Registration Division (7505C)



# DuPont™ Steadfast® ATZ

herbicide

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## DRAFT LABEL



*“..... A Growing Partnership With Nature”*

# DUPONT™ STEADFAST® ATZ HIGHLIGHTS

- STEADFAST® ATZ provides selective postemergence grass and broadleaf weed control in field corn.
- Apply at a rate of 1.5 quince product per acre.
- Include an adjuvant as recommended in this label. The use of nitrogen fertilizer is required in addition to the use of a crop oil concentrate or nonionic surfactant. See SPRAY ADJUVANTS.
- STEADFAST® ATZ may be applied by ground (broadcast or band only). Aerial applications are prohibited.
- For ground application, apply in a minimum of 15 gal of water and use a combination of nozzle and pressure settings that result in a medium - coarse spray droplet size.
- Recommended tank mixes are specified on this label. See TANK MIX APPLICATIONS.
- Apply to actively growing grass and broadleaf weeds at the recommended rates. See RATE.
- Applications made to grasses or corn under stress may affect the performance or in some cases reduce crop tolerance. See ENVIRONMENTAL CONDITIONS.
- Consult label text for complete instructions. Always read and follow label directions for use.

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# RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

This product is a restricted use herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water.



DuPont™

Steadfast® ATZ

herbicide

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
OCT 29 2003  
OCT 29 2003

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
352-619

For use in Field Corn

This product is a water-dispersible granule containing 89.3% active ingredient by weight.

Active Ingredients	By Weight
Nicosulfuron	
2-[[[(4,6-dimethoxypyrimidin-2-yl)aminocarbonyl]aminosulfonyl]-N,N-dimethyl-3-pyridinecarboxamide	2.7%
Rimsulfuron	
N((4,6-dimethoxypyrimidin-2-yl)aminocarbonyl)-3-(ethylsulfonyl)-2-pyridinesulfonamide	1.3%
Atrazine	
2-chloro-4-(ethylamino)-6-(isopropylamino)-s-triazine	85.3%
<b>Inert Ingredients</b>	<b>10.7%</b>
<b>TOTAL</b>	<b>100.0%</b>

EPA Reg. No. 352-619

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

**PRECAUTIONARY STATEMENTS  
HAZARD TO HUMANS  
AND DOMESTIC ANIMALS**

Caution! Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing.

### FIRST AID

**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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for emergency medical treatment information.

**Note to physician:** There is no specific antidote for atrazine. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

## PRECAUTIONARY STATEMENTS (cont'd)

### PERSONAL PROTECTIVE EQUIPMENT

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

**Mixers, loaders, applicators and other handlers must wear:**

- Coveralls over long sleeved shirt and long pants
- Chemical Resistant Gloves Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber) ≥14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear (if overhead exposure)
- A NIOSH approved dust mist filtering respirator with any N, R, P, or HE filter.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, 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.

### ENGINEERING CONTROL STATEMENT

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standards (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### USER SAFETY RECOMMENDATIONS

**Users should:** 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 clothes. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

Atrazine, one of the active ingredients of STEADFAST® ATZ, is a pesticide that can move (seep or travel) through soil and can contaminate groundwater that may be used as drinking water. Atrazine has been found in groundwater as a result of agricultural use. Users are advised not to apply STEADFAST® ATZ where the water table (groundwater) is close to the surface and where the soils are very permeable (i.e. well drained soils such as loamy sands). Local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

### PRECAUTIONARY STATEMENTS (cont'd)

Do not store, use and mix and load within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. 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 wash water, and rain water 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 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 to the mixing/loading sites.

Additional state requirements regarding well-head setbacks and operational are containment must be observed.

Do not mix or load within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. Do not apply within 66 feet of points where field surfacewater runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

#### Tile-Terraced Fields Containing Standpipes

One of the following restrictions must be used when applying atrazine to tile-terraced fields containing standpipes:

1. Do not apply within 66 feet of standpipes in tile-outletted terraced fields.
2. Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2 - 3 inches in the entire field.
3. Apply this product to the entire tile-outletted terraced field under a no-till practice only when a high crop residue management practice is practiced. High crop residue management is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

Atrazine is toxic to aquatic invertebrates. 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 apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

### DIRECTIONS FOR USE

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

ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through [www.atrazine-watershed.info](http://www.atrazine-watershed.info), or 1-866-365-3014. If use of this product is prohibited in your watershed, you may return this product to your point of purchase or contact DuPont for a refund.

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.

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 (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber) ≥14 mils.

Shoes plus socks.

DuPont™ STEADFAST® ATZ is a restricted use herbicide for retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

This product is a restricted use herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use on the container label in order to minimize potential for atrazine to reach ground and surface water.

STEADFAST® ATZ herbicide should be used only in accordance with recommendations on this label or in supplemental DuPont publications. DuPont will not be responsible for losses or damage resulting from use of this product in any manner not specifically recommended by DuPont.

## GENERAL INFORMATION

DuPont™ STEADFAST® ATZ herbicide is a water-dispersible granule used at the rate of 14 ounce per acre for selective postemergence grass and broadleaf weed control in field corn.

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

Do not make more than one application of STEADFAST® ATZ per cropping season and do not apply both STEADFAST® and STEADFAST® ATZ to the same field in the same cropping season.

When tank-mixing or sequentially applying atrazine or other herbicides containing atrazine to field corn, the total atrazine applied (lbs a.i./A) must not exceed a maximum of 2 lb a.i./A if no atrazine was broadcast prior to corn emergence. If a postemergence application is required following an earlier herbicide application, the total atrazine applied may not exceed 2 lb a.i./A per calendar year. A 60 day PHI applies for residential storage use when both preemergence and postemergence applications of atrazine have been made.

### WHEN TO APPLY

#### TIMING TO CROP STAGE

Apply STEADFAST® ATZ to corn that is up to 12 inches tall or that is exhibiting up to and including 6 leaf-collars. Do not apply to corn taller than 12 inches or exhibiting more than 6 leaf-collars (V6), whichever is more restrictive. Some restrictions apply (see below).

Apply STEADFAST® ATZ to field corn hybrids with a relative maturity (RM) rating of 77 days or more, including "food grade" (yellow dent, hard endosperm), waxy and high-oil corn.

Not all field corn hybrids of less than 77 days RM, nor all white corn hybrids nor Hi-Lysine hybrids have been tested for crop safety, nor does DuPont have access to all seed company data. Consequently, injury arising from the use of STEADFAST® ATZ on these types of corn is the responsibility of the user. Consult with your seed supplier before applying STEADFAST® ATZ to any of these corn types. The application of tank mixtures with dicamba-containing herbicides (such as "Clarity" or "Distinct") to 77-88 CRM corn should contain no more than 2 oz a.i. dicamba (e.g. 4 oz "Clarity").

Seed company publications indicate "Warning", "Crop Response Warning", or "Sensitive" notations for the use of some ALS herbicides on corn hybrids of 77 CRM or higher. As noted in the seed company publications, DuPont sulfonylurea herbicides such as STEADFAST® ATZ should be used with caution on these hybrids. Consult with your local DuPont representative or the DuPont Label Web Site (<http://cropprotection.dupont.com/>) for any additional supplemental labeling information relative to potential corn hybrid sensitivity to STEADFAST® ATZ.

Limit STEADFAST® ATZ applications to corn that is up to 12" tall, up to and including 5 leaf-collars (V5), whichever is most restrictive, in the states of NM, CO, KS, OK and TX.

#### TIMING TO WEEDS

Apply STEADFAST® ATZ when grasses are young and actively growing, but before they exceed the sizes listed on this label.

- Applications made to weeds at growth stages greater than those listed below may result in incomplete control. Grass competition due to incomplete control may reduce yields.
- Adequate soil moisture is required for optimum activity. Rainfall within 5 to 7 days after application will enhance STEADFAST® ATZ residual activity. If an activating rainfall or sprinkler irrigation (>0.5 inch) is not received within 5-7 days after application, follow with a cultivation or with a sequential application of DuPont™ ACCENT® herbicide, if needed. See CULTIVATION or SEQUENTIAL ACCENT® APPLICATIONS.

#### RATE

Apply STEADFAST® ATZ at a rate of 14 ounces per acre for season-long control of grass and broadleaf weeds listed below.

**Do not use less than 14 ounces per acre of STEADFAST® ATZ.**

**WEEDS CONTROLLED**

Grasses	Maximum Height or Diameter
Barnyardgrass	4"
Canarygrass	6"
Cereals, volunteer	2"
Crabgrass, large*	1"
Cupgrass, woolly*	3"
Foxtails (bristly, giant, green, yellow*)	4"
Goosegrass	2"
Johnsongrass, seedling rhizome	8" 12"
Millet, wild proso	4"
Panicum (fall, Texas)	4"
Quackgrass*	8"
Ryegrass, Italian	4"
Sandbur, field*	2"
Shattercane	6"
Signalgrass, broadleaf	3"
Oats, wild	2"
Wirestem muhly*	4"
Witchgrass	4"

\*Cultivation or retreatment with DuPont™ ACCENT® may be required. See "For Additional Control of Crabgrass and Later Emerging Grasses."

Broadleaf Weeds	Maximum Height or Diameter
<b>Control:</b>	
Amaranth, powell	4"
Burcucumber	4"
Cocklebur, common	4"
Dandelion	8"
Jimsonweed	4"
Lambsquarters, common (except triazine resistant)	4"
Morningglory, annual	4"
Mustard, wild	4"
Nightshade, eastern black	4"
Pigweeds (redroot, smooth)	4"
Ragweeds (common, giant)	4"
Smartweed, PA	4"
Sunflower, common	4"
Velvetleaf	2"
<b>Suppression:</b>	
Ladysthumb	4"
Hemp dogbane	4"
Milkweed, common	4"
Nutsedge, yellow	2"
Pigweed (amaranth), Palmer	2"
Pokeweed	4"
Thistle, Canada	4"
Waterhemp (common, tall)	4"

As weeds mature, their sensitivity to DuPont™ STEADFAST® ATZ decreases. Grassy weeds growing under stress due to drought or other environmental factors may become mature (more than 3 tillers) before they reach the size listed, in which case their susceptibility to STEADFAST® ATZ may be reduced.

**SPRAY ADJUVANTS**

Applications of STEADFAST® ATZ must include either a crop oil concentrate or a nonionic surfactant. In addition, an ammonium nitrogen fertilizer must be used. Crop oil concentrate plus ammonium nitrogen fertilizer is the preferred adjuvant system for STEADFAST® ATZ. Consult local DuPont fact sheets, technical bulletins, and service policies prior to using other adjuvant systems. If another herbicide is tank mixed with STEADFAST® ATZ, select adjuvants authorized for use with both products. Products must contain only EPA-exempt ingredients (40 CFR 1001).

**Crop Oil Concentrate (COC) - Petroleum or Modified Seed Oil (MSO)**

- Apply at 1% v/v (1 gal per 100 gal spray solution) or 2% under arid conditions. MSO adjuvants may be used at 0.5% v/v if specified on local DuPont product literature or service policies.
- Oil adjuvants must contain at least 80% high quality, petroleum (mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.

**Nonionic Surfactant (NIS)**

- Apply at 0.25% v/v (1 qt per 100 gal spray solution) or 0.5% under arid conditions.
- Surfactant products must contain at least 60% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12.

**Ammonium Nitrogen Fertilizer**

- Use 2 qt/acre of a high-quality urea ammonium nitrate (UAN), such as 28%N or 32%N, or 2 lb/acre of a spray-grade ammonium sulfate (AMS). Use 4 qt/acre UAN or 4 lb/acre AMS under arid conditions.
- Do not use liquid nitrogen fertilizer as the total carrier solution.

**Special Adjuvant Types**

- Combination adjuvant products may be used at doses that provide the required amount of NIS, COC, MSO and/or ammonium nitrogen fertilizer. Consult product literature for use rates and restrictions.
- In addition to the adjuvants specified above, other adjuvant types may be used if they provide the same functionality and have been evaluated and approved by DuPont Product Management. Consult separate DuPont technical bulletins for detailed information before using adjuvant types not specified on this label.

**MIXING INSTRUCTIONS**

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of STEADFAST® ATZ.
3. Continue agitation until the STEADFAST® ATZ is fully dispersed, at least 5 minutes.
4. Once the STEADFAST® ATZ is fully dispersed, maintain agitation and continue filling tank with water. Thoroughly mix STEADFAST® ATZ with water before adding any other material.

5. As the tank is filling, add the required spray adjuvants (crop oil concentrate, nonionic surfactant, or ammonium nitrogen fertilizer).
6. If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using.
7. Apply DuPont™ STEADFAST® ATZ spray mixture within 24 hours of mixing to avoid product degradation.
8. If STEADFAST® ATZ and a tank mix partner are to be applied in multiple loads, pre-slurry the STEADFAST® ATZ in clean water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of the STEADFAST® ATZ.

**WHEN TO APPLY - SEQUENTIAL APPLICATIONS FOLLOWING REDUCED RATES OF PREEMERGENCE HERBICIDES**

STEADFAST® ATZ may be used as a sequential application in a planned postemergence weed control program in corn following a reduced rate of a preemergence herbicide.

Apply a reduced rate of a preemergence grass herbicide prior to corn emergence and then follow with a postemergence application of STEADFAST® ATZ. Apply products such as DuPont™ CINCH®, CINCH® ATZ, "Balance" PRO, "Axiom", "Dual" II Magnum, "Surpass", "Outlook" or "Harness" Xtra at as low as 1/4 to 1/2 of the full labeled use rate and follow with a sequential postemergence application of STEADFAST® ATZ. Refer to the preemergence grass herbicide label for use restrictions, application information, rotational crop guidelines, and cautionary statements prior to applying STEADFAST® ATZ.

Do not apply STEADFAST® ATZ to corn that exhibits herbicide injury from previous applications made to the current or preceding crop.

**TANK MIX APPLICATIONS**

**For Additional Control of Broadleaf Weeds**

STEADFAST® ATZ may be tank mixed with the herbicides below for additional control of broadleaf weeds. See the tank mix partner label for weeds controlled, precautions, use restrictions and crop rotation information.

Crop oil concentrate must be used in the tank mixtures specified below. The use of nonionic surfactant is permitted in place of crop oil concentrate for tank mixtures containing dicamba, however, overall weed control may be reduced. See SPRAY ADJUVANTS for adjuvant rate recommendations.

	Rate/A
atrazine 90DF	4 - 20 oz
dicamba (e.g. "Clarity" - 4 lb/gal dicamba)	2 - 4 fl oz
dicamba + atrazine (e.g. "Marksman" - 1.1 lb/gal dicamba)	8 - 16 fl oz
"Distinct"	1 - 2 oz
"Callisto"	1 - 3 fl oz
"Hornet" WDG	2 - 3 oz

Rates listed are for the specific products noted in the table. If other brands or formulations are used, rates of active ingredients should be adjusted to correspond to the products indicated. Formulations of products other than those listed may not have been tested with STEADFAST® ATZ. Check with the manufacturer for information on tank mix compatibility prior to using (see TANK MIX COMPATIBILITY TESTING).

In addition to the weeds controlled using STEADFAST® ATZ alone, the table below indicates 4" tall weeds controlled using preferred tank mixtures.

Broadleaf Weeds	STEADFAST® ATZ Alone	+ 4 oz. "Clarity"	+ 2 oz. "Distinct"	+ 1 pt "Marksman"	+ 2.0 oz. "Hornet" WDG	+ 1.5 oz "Callisto"†
Kochia		C	S	C		S
Ladysthumb	S	C	C	C	C	C
Mallow, venice					C	
Velvetleaf	C*	C	C	C	C	C
Waterhemp, common, tall	S*	C	C	C	C*	C

C=Control  
S=Suppression  
\*="2" weeds.  
†See "Callisto" tank mix chart next page.

Unless noted elsewhere in this label, all tank mixtures in the table above require the addition of crop oil concentrate and ammonium nitrogen fertilizer as noted in SPRAY ADJUVANTS.

Do not apply STEADFAST® ATZ to corn that exhibits herbicide injury from previous applications made to the current or preceding crop.

**ADDITIONAL RECOMMENDATIONS AND/OR RECOMMENDATIONS FOR SPECIFIC WEED PROBLEMS**

**Tank Mixtures with Atrazine**

STEADFAST® ATZ may be tank mixed with 4 - 18 ounces active ingredient atrazine\* for additional control of many broadleaf weeds, including:

	Maximum Height or Diameter
Sicklepod	2"
Prickly sida	2"
Wild Radish	12"
Cutleaf evening primrose	6"
Florida pusley	2"

\*For best results add 0.25 - 1.125 qt Atrazine 4L or 4.0 - 20 oz Atrazine 90DF. Products containing atrazine are restricted use products.

STEADFAST® ATZ + atrazine tank mixtures may result in reduced control (antagonism) if applied to grasses under low moisture stress or to grasses exceeding the maximum labeled height. See GENERAL INFORMATION for specific restrictions on the total amount of atrazine that may be applied.



**Tank Mixtures with "Callisto"**

DuPont™ STEADFAST® ATZ may be tank mixed with 1 - 3 fl oz/acre of "Callisto" herbicide for weed control as indicated in the table below:

Species	Maximum Height or Diameter "Callisto"			
	1.0 oz	1.5 oz	2.0 oz	3.0 oz
Cocklebur	4"	10"	10"	10"
Dandelion	10"	10"	10"	10"
Jimsonweed	4"	4"	10"	10"
Kochia	--	--	4"	4"
Lambsquarters, common	4"	10"	10"	10"
Morningglory ivyleaf	4"	4"	4"	4"
Nightshade, black	4"	10"	10"	10"
Nightshade, eastern black	4"	10"	10"	10"
Pigweed, palmer	--	4"	4"	4"
Pigweed, (redroot, smooth)	4"	10"	10"	10"
Ragweed, common	4"	4"	10"	10"
Ragweed, giant	4"	4"	10"	10"
Smartweed, ladythumb	--	4"	10"	10"
Smartweed, Pennsylvania	4"	4"	10"	10"
Sunflower, common	4"	4"	4"	10"
Velvetleaf	4"	10"	10"	10"
Waterhemp, tall & common	4"	4"	10"	10"

Do not use MSO adjuvants with "Callisto" tank mixtures. Use a petroleum-based crop oil concentration + an ammonium nitrogen fertilizer.

**Tank Mixtures with "Distinct"**

In situations where the use of crop oil concentrate with growth regulator herbicides is not desirable (e.g. extremely cold weather), STEADFAST® ATZ may be tank mixed with 2 oz "Distinct" + a nonionic surfactant at 0.25% v/v (1 qt/100 gal spray solution) in place of crop oil concentrate, but overall weed control may be reduced.

**Tank Mixtures with "Exceed" or "Spirit"**

STEADFAST® ATZ may be tank mixed with 0.5 oz of "Spirit" or 0.125 oz of "Exceed" herbicides for additional control of velvetleaf, common and giant ragweed, lambsquarters, ivyleaf morningglory, PA smartweed, and sunflower.

**For Additional Control of Crabgrass and Later Emerging Grasses**

STEADFAST® ATZ may be tank mixed with full or reduced rates of preemergence grass herbicides labeled for early postemergence application to field corn (such as DuPont™ CINCH®, CINCH® ATZ, "Prowl", "Surpass" EC, "Dual" II Magnum, or "Outlook") for increased residual activity of later-emerging flushes of grasses such as smooth and large crabgrass. Application must be made before the crabgrass emerges and before other grass weeds on the STEADFAST® ATZ label exceed their labeled sizes.

The use of nonionic surfactant is recommended in place of crop oil concentrate in tank mixtures with preemergence herbicides where applications are made early postemergence to small grass weeds. See SPRAY ADJUVANT adjuvant rate recommendations.

When tank mixing STEADFAST® ATZ with EC formulated herbicides such as cinchonolides, do not add crop oil concentrate. When other formulated herbicides are used, refer to the label for tank mix recommendations. Do not apply to corn that is more than 2.5 times the height of the weeds. Do not apply to weeds larger than 2.5 times the height of the weeds.

Tank mixes of STEADFAST® ATZ and preemergence grass herbicides must be broadcast applied postemergence to field corn before the crop exceeds the heights listed on the preemergence grass herbicide label. Refer to WHEN TO APPLY-POSTEMERGENCE and the preemergence grass herbicide label for complete postemergence application information, rates, and restrictions.

**For Additional Control of Palmer Pigweed (Amaranth) in the States of CO, KS and OK**

STEADFAST® ATZ may be tank mixed with 2 - 3 oz a.i./acre of dicamba (e.g. 4 - 6 fl oz/acre of "Clarity") and crop oil concentrate for additional control of palmer pigweed. Applications must be made to corn that is 4-8 inches tall or exhibiting up to and including 3 leaf collars, whichever is more restrictive.

**For Additional Control of Yellow Nutsedge**

STEADFAST® ATZ may be tank mixed with up to 0.66 oz/acre "Permit" herbicide for control of yellow nutsedge. Applications must be made to corn that is up to 12 inches tall or exhibiting up to and including 5 leaf collars, whichever is more restrictive. Consult the "Permit" label for additional weeds controlled. Always add COC and ammonium nitrogen fertilizer.

**Tank Mixtures with Insecticides**

STEADFAST® ATZ may be tank mixed with pyrethroid or carbamate insecticides such as DuPont™ ASANA® XL or DuPont™ LANNATE® insecticides. See Soil Insecticide Interaction section for information on use of STEADFAST® ATZ following soil insecticides application.

**Other Tank Mixtures**

Other than the exceptions noted, and in addition to the tank mix partners and rates indicated above, STEADFAST® ATZ may be tank mixed or followed with sequential applications of other products registered for use in field corn. STEADFAST® ATZ may be applied in tank mix combinations with full or reduced rates of other products provided:

- The tank mix product is labeled for the same timing, method of application, adjuvants, and use restrictions as DuPont™ STEADFAST® ATZ.
- The tank mixture is not specifically prohibited on the label of the tank mix product.
- The tank mix combination is compatible as determined by a "jar test" described in the TANK MIX COMPATIBILITY TESTING section below.

Weed control and crop response with tank mixtures not specifically recommended in this label are the responsibility of the user and manufacturer of the tank mix product.

**Tank Mix Precautions:**

A corn plant's predisposition to develop fused tissue emerging from the whorl (rattail) after the V-11 stage may increase when a product containing dicamba (i.e. "Clarity", "Marksmen") is applied to small corn under early stressful conditions. Be aware of this when applying tank mixes with dicamba to small corn (V-3 stage or smaller) under stressful conditions. See ENVIRONMENTAL CONDITIONS for a description of these stressful conditions.

To avoid crop injury or antagonism, apply the products indicated below at least seven days before or 3 days after the application of STEADFAST® ATZ.

Do not tank mix STEADFAST® ATZ with "Basagran" and "Laddok" or severe crop injury may occur.

Do not tank mix STEADFAST® ATZ with 2,4-D containing products as severe grass control antagonism may occur.

Do not tank mix STEADFAST® ATZ with foliar-applied organophosphate insecticides such as "Lorsban", malathion, parathion, etc., as severe crop injury may occur.

Do not tank mix STEADFAST® ATZ with other acetolactate synthase (ALS) inhibiting herbicides unless the mixture is specifically recommended on STEADFAST® ATZ labels or fact sheets, as severe crop injury may occur.

Do not tank mix STEADFAST® ATZ with other products that contain the same active ingredients as STEADFAST® ATZ (nicosulfuron, rimsulfuron and atrazine) unless the label of either tank mix partner specifies the maximum rate that may be used.

**TANK MIX COMPATIBILITY TESTING**

Perform a jar test prior to tank mixing to ensure compatibility of STEADFAST® ATZ and other pesticides. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, gels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

**SEQUENTIAL DUPONT™ ACCENT® APPLICATIONS**

Apply ACCENT® herbicide 14 or more days after STEADFAST® ATZ applications to control grasses that may emerge later in the season. Refer to the ACCENT® label for grass species controlled, proper size of weeds, rates, corn sizes, and other information. When following a STEADFAST® ATZ application, do not use more than 2/3 oz ACCENT® per acre.

A sequential application of ACCENT® will affect crop rotation intervals to certain sensitive crops, such as sugarbeets. For maximum crop rotation flexibility, consult the CROP ROTATION section before applying ACCENT® to fields previously treated with STEADFAST® ATZ.

**CULTIVATION**

A timely cultivation may be necessary to control suppressed weeds, or weeds that emerge after an application of STEADFAST® ATZ in the absence of an activating rainfall.

Optimum timing for cultivation is 7-14 days after STEADFAST® ATZ application or upon seeing the establishment of new weeds.

**ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY**

STEADFAST® ATZ provides best results when applied to young, actively growing weeds. Applications made during warm, moist conditions (70°F or more) and adequate soil moisture both before and after application maximizes performance.

The degree and duration of control depend on spray coverage, activating rainfall, weed spectrum, weed size, growing conditions before and after treatment, soil moisture, and adjuvant selection.

Adequate soil moisture is required for optimum activity. Rainfall within 5-7 days will enhance STEADFAST® ATZ residual activity. A timely cultivation may be required for maximum weed control without an activating rain.

STEADFAST® ATZ is rainfast in 4 hours.

Treating weeds that exceed maximum label height or that are under stress may result in incomplete control. Poor weed control or crop injury may result from applications made to plants under stress from:

- abnormally hot or cold weather
- environmental conditions such as drought, water-saturated soils, hail damage, or frost
- disease, insect, or nematode injury
- prior herbicide, or carryover from a previous year's herbicide application

Severe stress from conditions preceding or immediately following application may also result in crop injury or poor weed control. Stress affects all weeds, but especially weeds such as woolly cupgrass, green and yellow foxtail, and wild proso millet.

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If the corn or grass weeds are under stress, delay application until stress passes and both weeds and corn resume active growth.

Apply DuPont™ STEADFAST® ATZ when minimum nighttime temperatures are above 40°F and the maximum daytime temperatures are below 92°F to maximize performance and minimize the potential for crop injury.

Applications made during or immediately following periods of large day/night temperature fluctuations or where daytime temperatures do not exceed 50°F may decrease weed control and increase the potential for crop injury.

STEADFAST® ATZ rapidly inhibits the growth of susceptible weeds, reducing weed competition within as little as 6 hours after application. Susceptible plants are controlled in 7–21 days.

Ground application of STEADFAST® ATZ to dry, dusty fields may reduce weed control in wheel track areas.

### SOIL INSECTICIDE INTERACTION INFORMATION

Before using STEADFAST® ATZ, ensure that it is compatible with any insecticides previously applied to the corn crop.

STEADFAST® ATZ may interact with certain insecticides previously applied to the crop. Crop response varies with field corn type, insecticide used, insecticide application method, and soil type.

STEADFAST® ATZ may be applied to corn previously treated with "Fortress", "Aztec", or "Force" insecticides or non-organophosphate (OP) soil insecticides regardless of soil type.

- DO NOT APPLY STEADFAST® ATZ to corn previously treated with "Counter" 15G or to corn treated with "Counter" 20CR in furrow or over the row at cultivation.
- Applications of STEADFAST® ATZ to corn previously treated with "Counter" 20 CR, "Dyfonate", "Lorsban", or "Thimet" may cause unacceptable crop injury, especially on soils of less than 4% organic matter.

### CROP ROTATION

Rotational crops vary in their response to low concentrations of STEADFAST® ATZ remaining in the soil. STEADFAST® ATZ dissipates rapidly in warm, acidic, microbiologically active soils.

The amount of STEADFAST® ATZ which may be present in the soil depends on soil pH and organic matter content, elapsed time since application, crop production practices, and environmental factors.

Injury to rotational crops may occur in high-pH, cold soils if dry weather prevails between application and rotational crop planting.

For fields treated with sequential applications of STEADFAST® ATZ and DuPont™ ACCENT® herbicide, consult the crop rotation intervals listed on the ACCENT® and STEADFAST® ATZ labels. Use the most restrictive recrop interval from either label.

The following rotational intervals must be observed when using STEADFAST® ATZ:

### STEADFAST® ATZ ROTATIONAL CROP GUIDELINE

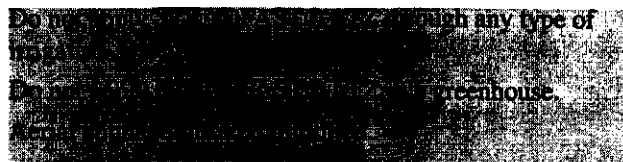
Crop	Interval in Months
Field Corn	Anytime
Seed, Sweet corn, Popcorn and Specialty corn	10
Cereals, fall-seeded	10
Cereals, spring-seeded	18
Cotton	10
Grain Sorghum	10
Soybeans	10
All Other Crops	18

- If STEADFAST® ATZ is applied after July 1, do not rotate with crops other than corn or sorghum the next year or injury may occur.
- In the high plains and intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use STEADFAST® ATZ only when corn is to be planted the following year, or when a crop of corn not treated with this product or atrazine is to precede other rotational crops.
- For tank mixes, follow the most restrictive provisions of the tankmix components.

### APPLICATION INFORMATION

Many crops are highly sensitive to STEADFAST® ATZ. All direct or indirect contact (such as spray drift) with crops other than field corn should be avoided (see also SPRAY DRIFT MANAGEMENT).

For all application systems, use 50-mesh or larger strainer screens.



### GROUND APPLICATION

#### Broadcast Application

- Use a minimum of 15 gallons of water per acre (15 GPA) for best performance. Use a minimum of 10 gallons of water per acre (GPA) for light, scattered stands of weeds.
- For best performance, select nozzles and pressure that deliver MEDIUM spray droplets as indicated in nozzle manufacturer's catalogues and in accordance with ASAE Standard S572. Nozzles that deliver COARSE spray droplets may be used to reduce drift, provided spray volume is increased to maintain coverage on small weeds. For optimal product performance and minimal spray drift, adjust the spray boom to the lowest possible spray height recommended in manufacturers' specifications.
- Ensure that equipment is set up to avoid applying an excessive rate directly over the rows and into the corn plant whorl. This is most likely to occur when a nozzle is positioned directly above the row.
- Overlaps or starting, stopping, slowing, and turning while spraying may result in crop injury.

**Band Application**

- For band applications, use proportionately less spray mixture.
- To avoid crop injury, carefully calibrate the band applicator to not exceed the labeled rate.
- Carefully follow the manufacturer’s instructions for nozzle type (flat fans), orientation, distance of nozzles from the crop and weeds, spray volumes, calibration and spray pressure.

**SPRAYER PREPARATION/CLEANUP**

It is important that spray equipment is clean and free of previous pesticide deposits before using DuPont™ STEADFAST® ATZ and then properly cleaned out following application. Clean all application equipment before applying STEADFAST® ATZ. Follow the cleanup procedures specified on the label of the product previously sprayed. If no cleanup procedure is provided, use the procedure that follows. Immediately following applications of STEADFAST® ATZ, thoroughly clean all mixing and spray equipment to avoid subsequent crop injury.

**Note:**

- When cleaning spray equipment before applying STEADFAST® ATZ, read and follow label directions for proper rinsate disposal of the product previously sprayed.
- Steam cleaning of aerial spray tanks will help to dislodge any visible pesticide deposits.
- When spraying or mixing equipment will be used over an extended period to apply multiple loads of STEADFAST® ATZ, partially fill the tank with fresh water at the end of each day of spraying, flush the boom and hoses, and allow to sit overnight.

**Cleanup Procedure**

1. Drain the tank and thoroughly hose down the interior surfaces. Flush the tank, hoses, and boom with clean water for a minimum of 5 min.
2. Partially fill the tank with clean water and add one gal of household ammonia\* (containing 3% active) for every 100 gal of water. Finish filling the tank with water, then flush the cleaning solution through the hoses, boom, and nozzles. Add more water to completely fill the tank and allow to agitate/recirculate for at least 15 min. Again, flush the hoses, boom, and nozzles with the cleaning solution, then drain the tank.
3. Repeat Step 2.
4. Remove the nozzles and screens and clean separately in a bucket containing the cleaning agent and water.
5. Thoroughly rinse the tank with clean water for a minimum of 5 min, flushing the water through the hoses and boom.

\* Equivalent amounts of an alternate strength ammonia solution or a tank cleaner recommended in the DuPont bulletin "Sulfonylurea Herbicides, A Guide to Equipment Cleanout," may be used.

**SPRAY DRIFT MANAGEMENT**

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

**AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.**

**IMPORTANCE OF DROPLET SIZE**

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!** See **Wind, Temperature and Humidity, and Temperature Inversions** sections of this label.

**Controlling Droplet Size - General Techniques**

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

**Controlling Droplet Size - Aircraft**

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- **Boom Length** - The boom length should not exceed 3/4 of the wing or rotor length - longer booms increase drift potential.
- **Application Height** - Application more than 10 ft above the canopy increases the potential for spray drift.

**BOOM HEIGHT**

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

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### **WIND**

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. **AVOID GUSTY OR WINDLESS CONDITIONS.**

**Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

### **INTEGRATED PEST MANAGEMENT**

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

### **RESISTANCE**

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes. If applicable, see the Weeds Controlled section of this label for additional information on managing herbicide resistant weed biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

### **IMPORTANT PRECAUTIONS**

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

- Do not apply DuPont™ STEADFAST® ATZ or drain or flush application equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- Do not use on lawns, walks, driveways, tennis courts, or similar areas.
- Prevent drift of spray to desirable plants.
- Do not contaminate any body of water.
- Thoroughly clean application equipment immediately after use. (See the Sprayer Cleanup section of this label for instructions.)
- Do not graze or feed forage, hay, or straw from treated areas to livestock within 60 days of STEADFAST® ATZ application.

**STORAGE AND DISPOSAL**

**Storage:** Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place.

**Product Disposal:** Do not contaminate water, food, or feed by disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal: For Plastic Containers:** Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. **For Fiber Sacks:** Completely empty fiber sack by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Dispose of bags at an approved waste disposal facility, in accordance with Federal, state and local regulations. **For Fiber Drums With Liners:** Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner. **For Bags Containing Water Soluble Packets:** Do not reuse the outer box or the resealable plastic bag. When all water-soluble packets are used, the outer packaging should be clean and may be disposed of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by open burning. If burned, stay out of smoke. If the resealable plastic bag contacts the formulated product in any way, the bag must be triple-rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer wrap as described above. **For Metal Containers (non aerosol):** Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. **For Paper and Plastic Bags:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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