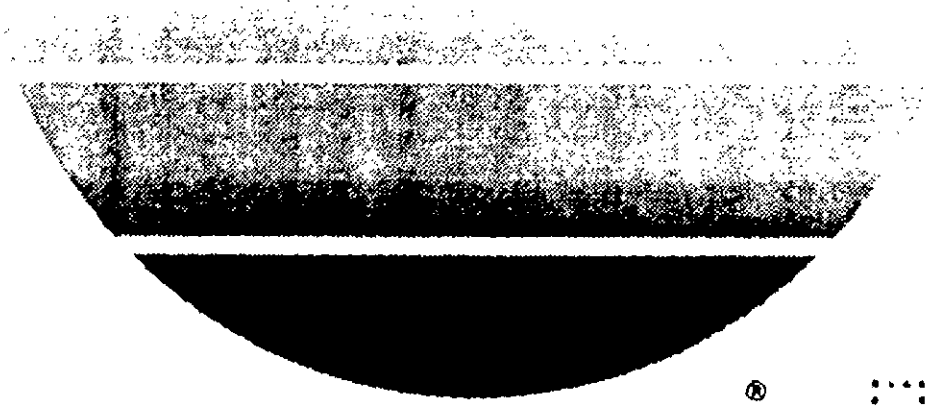
DUPONT

Assure® II

herbicide



"..... A Growing Partnership With Nature"...

ASSURE® II Highlights

- Provides postemergence control of both annual and perennial grasses in soybeans, cotton, and noncrop areas.
- ASSURE II has a flexible rate range and tank mix options. See "Geographic Rate Recommendations."
- May be tank mixed with CLASSIC, CONCERT, CONCERT SP, PINNACLE or SYNCHRONY STS in soybeans. See "Applications with Broadleaf Herbicides."
- Include crop oil concentrate or nonionic surfactant as recommended in this label. See "Spray Additives."
- May be applied by ground (broadcast, band, or spot spray) or by air.
- For ground application, use a minimum of 10 gal water (Area I) to 15 gal water (Area II) per acre. Use flat fan or hollow cone nozzles at 25-60 psi. See "Application Equipment."
- Apply to actively growing grasses at the recommended sizes. See "Timing to Weeds" and "Environmental Conditions and Biological Activity."
- Consult label text for complete instructions. Always read and follow label directions for use.

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DUPONT

Assure® II

herbicide

Emulsifiable Concentrate

Active Ingredients	*By Weight*
Quizalofop P-Ethyl: Ethyl(R)-2-[4-[(6-chloro-2-quinoxalin-2-yl)oxy]-phenoxy]propionate	10.3%*
Inert Ingredients	89.7%
TOTAL	100.0%

Contains petroleum-based distillates.

* Equivalent to 0.88 lb ai per gal

EPA Reg. No. 352-541

U.S. Patent No. 4,629,493

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

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

STATEMENT OF PRACTICAL TREAMENT

If in eyes: Immediately flush with a steady gentle stream of water for at least 15 minutes.
Call a physician if irritation persists.

If on skin: Wash with plenty of soap and water.
Get medical attention if irritation persists.

If swallowed: Do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician.

If large amounts are inhaled: Remove to fresh air. If not breathing, give artificial respiration, preferably by mouth. If breathing is difficult, give oxygen and call a physician.

For medical emergencies involving this product, call toll free 1-800-441-3637.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER! Causes severe eye irritation. May irritate skin, nose, and throat. May be harmful if absorbed through the skin, swallowed, or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing vapors or spray mist.

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 G on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.
Chemical-resistant gloves, such as barrier laminate or Viton.
Shoes plus socks.
Protective eyewear.

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

ENGINEERING CONTROL STATEMENTS

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 part 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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing .

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters or wastes.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Keep away from heat, sparks, and open flames. Keep container closed

DIRECTIONS FOR USE

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

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, such as barrier laminate or Viton.
Shoes plus socks.
Protective eyewear.

GENERAL INFORMATION

DuPont ASSURE® II Herbicide is a selective postemergence herbicide that controls annual and perennial grasses in soybeans, cotton, and noncrop areas. ASSURE II does not control sedges or broadleaf weeds.

APPLICATION INFORMATION – SOYBEANS AND COTTON

Timing to Crops

Apply ASSURE II to soybeans and cotton any time prior to 80 days before harvest. Do not apply to soybeans after pod set.

Timing to Weeds

Apply ASSURE II to young, actively growing grasses according to the rate charts that follow. If a field is to be irrigated, apply ASSURE II after the irrigation. Applications made to grasses that are larger than the sizes listed in the rate charts or to grasses under stress may result in unsatisfactory control.

GEOGRAPHIC RATE RECOMMENDATIONS

The grasses controlled by ASSURE II and the rates needed for control differ geographically. A description of the areas and recommended use rates (for use alone or in tank mixes, if allowed) follows.

AREA I -- (Areas with Adequate Rainfall)

Area I encompasses most of the eastern United States. This area generally has enough rainfall to support crop production without irrigation during the growing season. Area I is broadly defined to include that portion of the United States that lies east of the western border of the states of North Dakota and South Dakota, east of State Highway 183 in Nebraska, east of Interstate 135 in Kansas, and east of Interstate 35 in Oklahoma and Texas. Applied at recommended rates and timings, ASSURE II controls the grasses listed in the "Weeds Controlled and Rate Selection - Area I" chart.

AREA II -- (Arid Conditions)

Area II encompasses much of the western portion of the United States. This area is arid and requires irrigation during the growing season in many locations. Area II is broadly defined to include that portion of the United States that lies west of the western borders of the states of North Dakota and South Dakota, west of State Highway 183 in Nebraska, west of Interstate 135 in Kansas and west of Interstate 35 in Oklahoma and Texas. Applied at recommended rates and timings, ASSURE II controls the grasses listed in the "Weeds Controlled and Rates Selection - Area II" chart.

WEEDS CONTROLLED AND RATE SELECTION - AREA I

ASSURE II Applied Alone (oz product/A)		Size at Application (in)	ASSURE II* Tank Mixed with Broadleaf Herbicide (oz product/A)
Annual Grasses			
5 oz.	Corn, Volunteer (*Zea mays*)	6-18	5 oz
	Foxtail, Giant (*Setaria faberi*)	2-4 (pretiller)	
	Johnsongrass, Seedling (*Sorghum halepense*)	2-8	
	Shattercane (*Sorghum bicolor*)	6-12	
	Wild Proso Millet (*Panicum miliaceum*)	2-6	7 oz
7 oz.	Crowfootgrass (*Dactyloctenium aegyptium*)	2-6	8 oz.
	Fall Panicum (*Panicum dichotomiflorum*)	2-6	
	Field Sandbur (*Cenchrus incertus*)	2-6	
	Foxtail, Bristly (*Setaria verticillata*)	2-4	
	Foxtail, Giant (*Setaria faberi*)	2-8	7 oz.
	Foxtail, Green (*Setaria viridis*)	2-4	8 oz.
	Foxtail, Yellow (*Setaria lutescens*)	2-4	Split†
	Goosegrass (*Eleucine indica*)	2-6‡	8 oz
	Itchgrass (*Rottboellia exaltata*)	2-8	
	Sprangletop (*Leptochloa filiformis*)	2-6	
	Volunteer Barley (*Hordeum vulgare*)	2-6	
	Volunteer Oats (*Avena sativa*)	2-6	
	Volunteer Rye (*Secale cereale*)	2-6	
	Volunteer Wheat (*Triticum aestivum*)	2-6	
	Wild Oat (*Avena fatua*)	2-6	
	Witchgrass (*Panicum capillare*)	2-6	
8 oz.	Barnyardgrass (*Echinochloa crus-galli*)	2-6	Split†
	Broadleaf Signalgrass (*Brachiaria platyphylla*)	2-6	
	Crabgrass, Large (*Digitaria sanguinalis*)	2-6‡	
	Crabgrass, Smooth (*Digitaria ischaemum*)	2-6‡	
	Junglerice (*Echinochloa colonum*)	2-6	10 oz.
	Texas Panicum (*Panicum texanum*)	2-4	Split†
9 oz.	Red Rice (*Oryza sativa*)	1-4	Split†
	Woolly Cupgrass (*Eriochloa villosa*)	2-4§	
Perennial Grasses			
8 oz.	Wirestem Muhly (*Muhlenbergia frondosa*)	4-8	Split†
10 oz.	Bermudagrass (*Cynodon dactylon*)	3" tall (or up to 6" runners)	Split†
	Johnsongrass, Rhizome (*Sorghum halepense*)	10-24	10 oz.
	Quackgrass (*Agropyron repens*)	6-10	Split†

* See "Applications With Broadleaf Herbicides", page 7.

† Split = Split Application. May not be controlled adequately using a tank mix with broadleaf herbicides. For best results, alternate applications of ASSURE II with a broadleaf herbicide, ensuring that ASSURE II is applied either 24 hours before or 7 days after the broadleaf herbicide.

‡ Length of lateral growth

§ Size in height or diameter, whichever is more restrictive. Applications to plants with more than three tillers may result in unsatisfactory control

WEEDS CONTROLLED AND RATE SELECTION - AREA II*

ASSURE II Applied Alone (oz product/A)		Size at Application (in)
Annual Grasses		
7 oz.	Corn, Volunteer (*Zea mays*)	6-10
	Field Sandbur (*Cenchrus incertus*)	2-6
	Johnsongrass, Seedling (*Sorghum halepense*)	2-6
	Shattercane (*Sorghum bicolor*)	6-10
8 oz.	Barnyardgrass (*Echinochloa crus-galli*)	2-4
	Broadleaf Signalgrass (*Brachiaria platyphylla*)	2-4
	Crabgrass, Large (*Digitaria sanguinalis*)	2-4†
	Foxtail, Green (*Setaria viridis*)	2-4
	Foxtail, Yellow (*Setaria lutescens*)	2-4
	Junglerice (*Echinochloa colonum*)	2-4
	Volunteer Barley (*Hordeum vulgare*)	2-4
	Volunteer Oats (*Avena sativa*)	2-4
	Volunteer Rye (*Secale cereale*)	2-4
	Volunteer Wheat (*Triticum aestivum*)	2-4
10 oz.	Texas Panicum (*Panicum texanum*)	2-4
Perennial Grasses		
12 oz.	Bermudagrass (*Cynodon dactylon*)	3" tall (or up to 6" runners)
	Johnsongrass, Rhizome (*Sorghum halepense*)	10-16

* Do not apply tank mixes of ASSURE II and other herbicides in Area II.
† Length of lateral growth.

SEQUENTIAL APPLICATIONS

Annual Grasses - Areas I and II

In the event of a subsequent flush of grass or regrowth of previously treated grass occurs a second application of ASSURE II may be applied. Select the appropriate rate from the appropriate "Weeds Controlled - Rate selection" chart. Do not apply more than 18 ounces of ASSURE II per acre per year.

Perennial Grasses - Area I

If perennial grasses regrow, reapply ASSURE II at 7 ounces of product per acre. Application timing should be as follows: bermudagrass (3" tall or up to 6" runners), rhizome johnsongrass (6"-10"), quackgrass (4"-8"), wirestem muhly (4"-8"). Do not apply more than 18 ounces of ASSURE II per acre per year.

Perennial Grasses - Area II

If perennial grasses regrow, reapply ASSURE II at 6 ounces of product per acre. Application timing should be as follows: bermudagrass (3" tall or up to 6" runners), rhizome johnsongrass (6"-10"). Do not apply more than 18 ounces of ASSURE II per acre per year.

Rhizome Johnsongrass - Southern States

For control of rhizome johnsongrass in the states of Alabama, Arkansas, Florida, Georgia, Louisiana, Maryland, Mississippi, Tennessee, Virginia, and West Virginia, a reduced rate of ASSURE II may be used if applied in a sequential application program as follows:

1. Apply ASSURE II at 5 ounces per acre when johnsongrass is 10"-24" tall.
2. Apply ASSURE II a second time at 5 ounces per acre when johnsongrass regrowth is 6"-10" tall.

Do not apply ASSURE II in a tank mix with postemergence broadleaf herbicides when using this reduced rate, sequential application program.

SPRAY ADDITIVES

ALWAYS INCLUDE A SPRAY ADJUVANT WITH APPLICATIONS OF ASSURE II. Select one of the adjuvant types listed in Spray Adjuvants. For additional information, refer to the DuPont bulletin "Approved Adjuvants for Use with DuPont Row Crop and Cereal Herbicides".

Spray Adjuvants

- Avoid products that do not accurately list their contents on the product label.
- Use products composed only of EPA-exempt ingredients (40 CFR § 180.1001).

Nonionic surfactants

- Use only adjuvants containing a minimum concentration of 50% actual nonionic surfactant.
- Apply at 2 pt of product per 100 gal of spray solution so that a minimum of 0.125% v/v of actual nonionic surfactant is used.

Crop Oil Concentrates

- Use only adjuvants containing a minimum of 80% oils and 15% emulsifiers/surfactants.
- Use only petroleum-based crop oil concentrates.
- Because they may not perform as well as petroleum-based crop oil concentrates, methylated seed oils are not recommended.

Fertilizers

- An ammonium nitrogen fertilizer such as 28-0-0 (2-4 qt/A) or sprayable grade ammonium sulfate(21-0-0 at 2 - 4 lb/A) may be added to the spray mix, but is not required to optimize performance of this product.
- Fertilizers will not replace the need for nonionic surfactant or crop oil concentrate.

Adjuvant Rates for ASSURE II Applied Alone

Ground Application

Use either

- a crop oil concentrate

  Soybeans: 8 to 16 pt per 100 gal of spray solution (concentration of 1.0 to 2.0% v/v)

  Cotton: 8 pt per 100 gal of spray solution (concentration of 1.0% v/v)

  OR

- a nonionic surfactant

  Cotton and soybeans: 2 pt per 100 gal of spray solution

Aerial Application

Use either

- a crop oil concentrate at 4 pt per 100 gal of spray solution (concentration of 0.5% v/v).

  OR

- a nonionic surfactant at 2 pt per 100 gal of spray solution

APPLICATIONS WITH INSECTICIDES

ASSURE II may be tank mixed with postemergence insecticides such as DuPont ASANA® XL Insecticide, DuPont BIOBIT® Insecticide, DuPont BIOCOT® Insecticide, DuPont LANNATE® Insecticide, DuPont LANNATE® LV Insecticide, DuPont VYDATE® C-LV Insecticide, and DuPont VYDATE® L Insecticide for use on cotton and/or soybeans where labeled. Refer to the labels of all products in the mix for information regarding rates, timing, application information, species controlled, use restrictions, sprayer cleanup use precautions, and other information. The most restrictive provisions apply.

Always conduct a jar test to evaluate physical compatibility before applying a particular insecticide mixture to crops.

APPLICATIONS WITH BROADLEAF HERBICIDES

For best results, apply ASSURE II alone or in sequence with a broadleaf herbicide(s).

Antagonism

Tank mixes of ASSURE II with postemergence broadleaf herbicides have shown some reduction in control of most grass species and failure to control certain grass species normally controlled by ASSURE II used alone. Activity of the postemergence broadleaf herbicide in the tank mixture is not affected.

Split Applications with Postemergence Broadleaf Herbicides

Applying ASSURE II immediately prior to or following an application of a postemergence broadleaf herbicide may reduce control of some grasses. For best results, follow these recommendations when making split applications:

- Apply postemergence broadleaf herbicides at least 24 hours after applying ASSURE II.
- Apply ASSURE II when grass begins to develop new leaves (generally 7 days after the postemergence broadleaf herbicide application) in fields treated with a postemergence broadleaf herbicide.

Tank Mixes with Postemergence Soybean Broadleaf Herbicides

ASSURE II can be tank mixed with postemergent soybean broadleaf herbicides such as DuPont CLASSIC® Herbicide, CLASSIC + PINNACLE, DuPont CONCERT® Herbicide, DuPont CONCERT® SP Herbicide, DuPont PINNACLE® Herbicide and DuPont SYNCHRONY® STS Herbicide or Basagran® for use on soybeans to control broadleaf weeds and selected grasses. Refer to labels of all products in the mix for information regarding rates, weeds controlled, potential antagonism, use restrictions, rotational cropping recommendations, sprayer cleanup use precautions, and other information. The most restrictive provisions apply.

Note: Do not apply ASSURE II in a tank mix with a post emergence broadleaf herbicide in AREA II (and conditions as defined on this label) as grass control will not be satisfactory. If control of both grass and broadleaf weeds is desired, apply the necessary herbicides separately.

Spray Adjuvants for Soybean Tank Mixes

When tank mixing ASSURE II with CLASSIC, CLASSIC + PINNACLE, CONCERT, CONCERT SP, PINNACLE, or SYNCHRONY STS, a spray adjuvant must be included. Include ammonium nitrogen fertilizer if specified on the tankmix partner label. Adjuvant rates for tank mixes of ASSURE II with postemergence broadleaf herbicides follow. Use either a crop oil concentrate or a nonionic surfactant as specified:

(Pints per 100 gal of spray solution)

Assure II Tank mix partner	Ground COC	or NIS	Aerial COC	or NIS
Classic	8	2	4	2
Pinnacle	–*	1-2†	–*	1-2†
Classic + Pinnacle	–*	1-2†	–*	1-2†
Concert/Concert SP	–*	1-2†	–*	1-2†
Synchrony STS	8	-	-	-
Basagran	8	–	4	–

* Do not use Dash' or crop oil concentrate when tank mixing ASSURE II with PINNACLE, CLASSIC + PINNACLE, CONCERT or CONCERT SP unless specified on other DuPont supplemental labeling.

† Using the higher rate of nonionic surfactant, particularly under hot, humid conditions, may increase temporary crop injury.

SPOT/SMALL AREA SPRAY RECOMMENDATIONS IN SOYBEANS AND COTTON (AREAS I AND II)

To spot treat small areas of annuals (i.e., volunteer corn) or perennials (i.e., rhizome johnsongrass)

- use a 0.375% solution of ASSURE II and water.
- include a nonphytotoxic crop oil concentrate at 8 pt per 100 gal of spray solution (1% v/v) or a nonionic surfactant at 2 pt per 100 gal of spray solution (0.25% v/v).
- treat plants on a spray-to-wet basis to ensure good coverage.

Desired spray volumes for ASSURE II on soybeans and cotton in small areas are as follows:

ASSURE II – DESIRED SPRAY VOLUMES FOR SMALL AREAS

Desired Spray Volume (gal)	ASSURE II (fl oz product)	+	Crop Oil Concentrate (fl oz)	OR	Nonionic Surfactant (fl oz)
1	0.5 (1 tbsp)		1.25 (2.5 tbsp)		0.3 (2 tsp)
25	12 (3/4 pt)		32 (1 qt)		8 (1 cup)
50	24 (1.5 pt)		64 (2 qt)		16 (1 pt)
100	48 (3 pt)		128 (1 gal)		32 (1 qt)

Do not spot treat grasses using a tank mix of ASSURE II and broadleaf herbicides

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Weed control in "Noncrop Areas" is not within the scope of WPS.

Keep unprotected persons out of treated areas until sprays have dried.

APPLICATION INFORMATION – NONCROP AREAS

ASSURE II is recommended for postemergence control of certain grasses on noncrop sites such as fence rows, roadsides, equipment storage areas, and other similar areas.

Make a single application of ASSURE II at a rate of 12 to 16 ounces per acre to actively growing grasses as follows:

Quackgrass. Apply when plants are 6 to 10" tall.

Wild Oats. Apply when plants are 2 to 6" tall.

1. Determine the spray volume required. The volume should be between 10 and 40 gal of water per acre.
2. Mix the ASSURE II (12 to 16 oz per acre) in the water.
3. Add a nonphytotoxic petroleum-based crop oil concentrate at 4 qt per 100 gal of water (1% v/v) to the spray mix. Do not use vegetable oils.
4. Using flat fan nozzles, cover the weed foliage thoroughly.

APPLICATION EQUIPMENT

Many crops are sensitive to ASSURE II. All direct or indirect contact (such as spray drift) with crops other than soybeans or cotton should be avoided.

Ground Application (See Also Spray Drift)

Broadcast Application

- Use flat fan or hollow cone nozzles at 25-60 psi.
- Do not use flood, rain drop, whirl chamber, or any other nozzle types that produce coarse, large spray droplets. In addition, do not use controlled droplet applicator (CDA) type nozzles as poor weed control or excessive spray drift may result.
- Use a minimum of 10 gal of water per acre in Area I.
- Use a minimum of 15 gal of water per acre in Area II.
- Increase spray volume and pressure as weed or crop density and size increase.
- Do not exceed 40 gal of water per acre in Area I or Area II.
- Adjust the boom and nozzle height according to the nozzle manufacturer's specifications to obtain proper spray coverage.

Band Application

- Because band application equipment sprays a narrower area than broadcast application equipment, calibrate equipment to use proportionately less spray solution.
- To avoid crop injury, carefully calibrate the band applicator not to exceed the labeled rate.
- Carefully follow the manufacturer's instructions for nozzle type, nozzle orientation, distance of the nozzles from the crop and weeds, spray volumes, calibration, and spray pressure.
- For additional information on row banders see DuPont bulletin, "Application Accuracy - Row Banders".

Aerial Application (See Also Spray Drift)

- Use nozzle types and arrangements that provide optimum spray distribution and maximum coverage.
- Use a minimum of 3 gal of water per acre in Area I.
- Use a minimum of 5 gal of water per acre in Area II.
- Do not apply during a temperature inversion, when winds are gusty, or when other conditions favor poor coverage and/or off-target spray movement.

CULTIVATION

Do not cultivate during or within 7 days before or after applying ASSURE II as damage to the grass roots may result in unsatisfactory control.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

ASSURE II is a systemic herbicide that is rapidly absorbed by treated foliage and translocated to the roots and other growing points of the plant. When affected, younger plant tissues become chlorotic/necrotic and eventually die, leaving treated plants stunted and noncompetitive. In general, these symptoms are first observed within 7 to 14 days after application depending on the grass species treated and the environmental conditions.

The degree of control and duration of the effect of ASSURE II depend upon the rate used, weed spectrum, weed size and variability, growing conditions at and following treatment, soil moisture, precipitation, tank mixtures, and spray adjuvant used.

Conditions conducive to healthy, actively growing plants optimize the performance of ASSURE II. Do not apply ASSURE II to grasses stressed from

- abnormal weather (hot or cold),
- drought,
- water saturated soils, or
- prior herbicide injury.

Grasses under these conditions are often less sensitive to herbicide activity. Delay application until the stress passes and weeds and crop resume growth.

ASSURE II is rainfast 1 hour after application.

RESISTANCE

Biotypes of johnsongrass and other grass species resistant to postemergence grass herbicides such as ASSURE II are known to exist. Biotypes are naturally occurring individuals of a species identical in appearance but with slightly different genetic makeups.

If grass control is unsatisfactory, several other factors that could negatively affect herbicide performance should be investigated in addition to the selection for resistant biotypes. These factors include unfavorable environmental conditions, application errors, applications to plants under stress, or uses not according to the product label (off-label rates, grass sizes, tank mixes, improper adjuvant type or rate, etc.).

If the initial postemergent grass herbicide treatment is ineffective because of the presence of a resistant biotype, applications of herbicides with the same mode of action (herbicides that affect the plant in the same way) may not control the resistant biotypes effectively. A balanced grass control program should then be followed. Consult your DuPont representative, agrichemical dealer, extension specialist, or consultant for specific recommendations.

CROP ROTATION

Do not rotate to crops other than soybeans or cotton within 120 days after application.

SPRAYER PREPARATION AND CLEANUP

Spray equipment must be clean and free of previous pesticide deposits before applying ASSURE II and properly cleaned out after applying ASSURE II. Using the cleanup procedures specified on the label of the previously used product, clean all application equipment before applying ASSURE II. If no cleanup procedure is provided, use the procedure that follows. Immediately following applications of ASSURE II, thoroughly clean all mixing and spray equipment according to the following instructions.

1. Drain tank; thoroughly hose down the interior surfaces of the tank; then flush tank, boom, and hoses with clean water for a minimum of 5 minutes. Loosen and physically remove any visible deposits.
2. Fill the tank with clean water and add one gal of household ammonia* (3% active) for every 100 gal of water. Flush the cleaning solution through the boom, hoses, and nozzles. Add more water to completely fill the tank and allow to agitate/recirculate for at least 15 minutes. Again, flush the hoses, boom, and nozzles with the cleaning solution, then drain the tank.
3. Remove the nozzles and screens and clean separately in a bucket containing the cleaning agent and water.
4. Repeat Step 2.
5. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing the water through the hoses and boom.
6. Dispose of the rinsate on site or at an approved waste disposal facility.

- Equivalent amounts of an alternate strength ammonia solution or Du Pont approved cleaner can be used in the cleanout procedure (see Bulletin "A Guide To Application Equipment Cleanout for Du Pont Sulfonylurea Herbicides". Carefully read and follow the individual cleaner instructions.

Notes

- Steam cleaning of aerial spray tanks is recommended in order to dislodge any visible pesticide deposits.
- During an extended period where spraying (or mixing) equipment will be used to apply multiple loads of ASSURE II, at the end of each day partially fill the tank with fresh water, flush the boom and hoses, and allow to sit overnight.

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.

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.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is inappropriate for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.
Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

IMPORTANT PRECAUTIONS

Do not tank mix ASSURE II with any pesticide or spray adjuvant except as directed on this label or on other supplemental labels.

• Most grass crops, including wheat, barley, rye, oats, sorghum, rice, and corn are highly sensitive to ASSURE II. All direct or indirect contact (such as spray drift) should be avoided.

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

• Do not apply ASSURE II or drain or flush equipment on or near desirable trees or other plants, 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 spray drift to desirable plants.

Do not contaminate any body of water.

Keep ASSURE II from coming in contact with fertilizers, insecticides, fungicides, and seeds during storage.

Thoroughly clean all application equipment immediately after use and prior to spraying crops other than soybeans or cotton.

Do not apply this product through any type of irrigation system.

Do not graze treated fields or harvest for forage or hay.

DuPont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by DuPont.

STORAGE AND DISPOSAL

Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

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

Container Disposal: Triple rinse (or equivalent). Then offer the container for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerator. Or, if allowed by state and local authorities, the container can be burned on site. If burned, stay out of smoke.

Notice to Buyer: Purchase of this material does not confer any rights under patents of countries outside of the United States.

NOTICE OF WARRANTY

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. 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 the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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