

352-755

11/01/2007

1/11



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505C)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

352-755

Date of Issuance:

NOV - 1 2007

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

DuPont First Shot SG Burndown  
Herbicide (with TotalSol soluble  
granules)

Name and Address of Registrant (include ZIP Code):

E.I. DuPont De Nemours and Company  
DuPont Crop Protection  
Stine-Haskell Research Center  
P.O. Box 30  
Newark, DE 19714-0030

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
2. Add the phase, "EPA Registration No. 352- 755" to your label before you release the product for shipment.
3. Submit one (1) copy of the revised final printed label for the record before you release the product for shipment.

Signature of Approving Official:

*Vickie K Walters for*  
James A. Tompkins, Product Manager (25)  
Herbicide Branch, Registration Division (7505P)

Date:

11/1/07

2/11

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

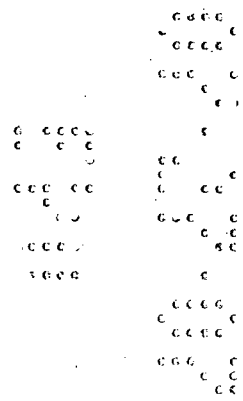
Enclosure



H- 3/11

# DuPont™ FirstShot™ SG

burndown herbicide  
(with TotalSol® soluble granules)



## DRAFT LABEL

**DUPONT™ FIRSTSHOT™ SG (WITH  
TOTALSOL® SOLUBLE GRANULES)  
HIGHLIGHTS**

- *For burndown of broadleaf weeds in the fallow period prior to planting.*
- *Apply at the rate of 0.5 to 0.8 ounces per acre with a surfactant.*
- *May be applied by ground or by air.*
- *Use in tank mixtures with other registered herbicides for broader spectrum weed control (see Tank Mixtures).*
- *Consult label text for complete instructions. Always read and follow label "Directions For Use".*

**TABLE OF CONTENTS**

4/11

PRECAUTIONARY STATEMENTS .....	1
DIRECTIONS FOR USE .....	2
GENERAL INFORMATION .....	2
Environmental Conditions and Biological Activity .....	2
WEEDS CONTROLLED .....	2
WEEDS PARTIALLY CONTROLLED .....	2
USE RATE .....	3
SPRAY ADJUVANTS .....	3
TANK MIXTURES .....	3
SPECIFIC WEED PROBLEMS .....	3
CROP ROTATION .....	3
APPLICATION INFORMATION .....	4
PRODUCT MEASUREMENT .....	4
MIXING INSTRUCTIONS .....	4
GROUND APPLICATIONS .....	4
AERIAL APPLICATION .....	4
SPRAY EQUIPMENT .....	4
At the End of the Day .....	4
After Spraying FIRSTSHOT™ SG and Before Spraying Crops .....	4
SPRAY DRIFT MANAGEMENT .....	5
Importance of Droplet Size .....	5
Boom Height .....	5
Wind .....	5
Temperature and Humidity .....	5
Temperature Inversions .....	5
Shielded Sprayers .....	5
Air-Assisted (Air Blast) Field Crop Sprayers .....	5
RESISTANCE .....	5
INTEGRATED PEST MANAGEMENT .....	6
PRECAUTIONS .....	6
STORAGE AND DISPOSAL .....	6
LIMITATION OF WARRANTY AND LIABILITY .....	7



**DuPont™**  
**FirstShot™ SG**

**burndown herbicide**  
(with TotalSol® soluble granules)

Active Ingredients	By Weight
Thifensulfuron-methyl Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl) amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylate	25%
Tribenuron-methyl Methyl 2-[[[N-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl]amino]sulfonyl]benzoate	25%
<b>Inert Ingredients</b>	<b>50%</b>
<b>TOTAL</b>	<b>100%</b>

EPA Reg. No. 352-~~XXX~~ *FCC 755*

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

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.)

**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.

**ACCEPTED**  
NOV - 1 2007  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended for the pesticide registered under EPA Reg. No. 352-755

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

**CAUTION!** Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. For medical emergencies involving this product, call toll free 1-800-441-3637.

**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 an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants.
- Chemical Resistant Gloves Category A (such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber) ≥14 mls.
- Shoes plus socks.

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.

**USER SAFETY RECOMMENDATIONS**

**USERS SHOULD:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

**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 cleaning equipment or disposing of equipment washwaters.

**PESTICIDE HANDLING**

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment.
- Ensure that all operation employees accurately measure pesticides.
- Mix only enough product for the job at hand.
- Avoid overfilling of spray tank.
- Do not discharge excess material on the soil at a single spot in the field, grove, or mixing/loading station.
- Dilute and agitate excess solution and apply at labeled rates or uses.
- Avoid storage of pesticides near well sites.
- When triple-rinsing the pesticide container, be sure to add the rinsate to the spray mix.

5/11

## 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 Category A (such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber)  $\geq$  14 mls.

Shoes plus socks.

DuPont™ FIRSTSHOT™ SG (with TOTALSOL® soluble granules) is recommended for use as a burndown in the fallow period prior to planting. Check with your state extension or Dept. of Agriculture before use to be certain FIRSTSHOT™ SG is registered in your state.

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

### GENERAL INFORMATION

FIRSTSHOT™ SG herbicide is a water soluble granule that is used for postemergence burndown weed control in the fallow period prior to planting. The best control is obtained when FIRSTSHOT™ SG is applied to young, actively growing weeds. Rate selection should be based on weed spectrum and infestation intensity, weed size at application, environmental conditions at and following treatment and tank mix partners.

FIRSTSHOT™ SG is noncorrosive, nonflammable, nonvolatile, and does not freeze. FIRSTSHOT™ SG should be completely dissolved in water and applied as a uniform broadcast spray.

## ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

FIRSTSHOT™ SG is absorbed primarily through the foliage of plants, rapidly inhibiting the growth of susceptible weeds. One to 3 weeks after application to weeds (2 to 5 weeks for wild garlic), leaves of susceptible plants appear chlorotic, and the growing point subsequently dies.

The herbicidal action of FIRSTSHOT™ SG may be affected from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions or cultural practices. In warm, moist conditions, the expression of herbicide symptoms is accelerated; in cold, dry conditions, expression of herbicide symptoms is delayed. In addition, weeds hardened-off by drought stress are less susceptible to FIRSTSHOT™ SG.

### WEEDS CONTROLLED

FIRSTSHOT™ SG effectively controls the following weeds when used according to label directions:

Annual knawel	Marshelder
Annual sowthistle	Mayweed chamomile
Black mustard	Miners lettuce
Blue/Purple mustard	Narrowleaf lambsquarters
Broadleaf dock	Nightflowering catchfly
Bur buttercup	Pennsylvania smartweed
Bushy wallflower/	Pineappleweed
Treacle mustard	Prickly lettuce ‡
Carolina geranium	Prostrate knotweed
Clasping pepperweed	Prostrate pigweed
Coast fiddleneck	Redmaids
Common buckwheat	Redroot pigweed
Common chickweed	Scentless chamomile/
Common cocklebur *	mayweed
Common groundsel	Shepherd's-purse
Common lambsquarters	Slimleaf lambsquarters
Common radish	Smallflower buttercup
Common ragweed *	Smallseed falseflax
Common sunflower	Stinking chickweed
Corn chamomile	Stinking mayweed/
Corn spurry	dogfennel
Cowcockle	Swinecress
Cress (mouse-ear)	Tansymustard
Curly dock	Tarweed fiddleneck
False chamomile	Tumble/ Jim Hill mustard
Field chickweed	Volunteer lentils
Field pennycress	Volunteer peas
Filaree (redstem, Texas)	Volunteer sunflower
Flixweed	Wild chamomile
Green smartweed	Wild garlic*
Henbit *	Wild mustard
Ladysthumb	Wild radish*
London rocket	

### WEEDS PARTIALLY CONTROLLED\*\*

FIRSTSHOT™ SG partially controls the following weeds when used according to label directions:

Catchweed bedstraw	Marestail*
Cutleaf eveningprimrose*	Nightshade (cutleaf, hairy)
Mallow (common, little)	Vetch* (common, hairy)

\* See SPECIFIC WEED PROBLEMS for more information.

\*\*Partial control: A visual reduction of weed population as well as a significant loss of vigor. For better results, use the highest recommended rate of FIRSTSHOT™ SG per acre and include a tank mix partner such as 2,4-D, a dicamba containing product, or a glyphosate containing product.

‡ Naturally occurring resistant biotypes of prickly lettuce, marestail and mayweed spp. are known to occur. See the Resistance section of this label for additional details.

## USE RATE

Apply 0.5 to 0.8 oz DuPont™ FIRSTSHOT™ SG (with TOTALSOL® soluble granules) per acre as a burndown treatment to control emerged weeds prior to planting.

When applying 0.5 to 0.6 oz per acre, FIRSTSHOT™ SG must be used in combination with another registered burndown herbicide (see TANK MIXTURES).

Use the 0.8 ounce per acre rate when weed infestation is heavy or when application timing and environmental conditions are marginal.

Sequential treatments of FIRSTSHOT™ SG may be made provided the total amount of FIRSTSHOT™ SG applied during one pre-plant cropping season does not exceed 1.0 ounce per acre. Allow at least 30 days between applications. For example, 0.5 ounce in the fall followed by 0.5 ounce in the spring.

## SPRAY ADJUVANTS

Always include a spray adjuvant with applications of FIRSTSHOT™ SG. Glyphosate products differ in their adjuvant contents, see the manufacturers specific surfactant recommendations.

Consult your Ag dealer or applicator, local DuPont fact sheets, technical bulletins, and service policies prior to using an adjuvant system. If another herbicide is tank mixed with FIRSTSHOT™ SG, select adjuvants authorized for use with both products. Products must contain only EPA-exempt ingredients (40CFR 1001).

### Crop Oil Concentrate (COC) or Modified Seed Oil (MSO)

- Apply at 1% volume/volume (1 gal per 100 gal spray solution) or 2% volume/volume under arid conditions.
- Oil adjuvants must contain at least 80% high quality, petroleum (mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.
- 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.

### Nonionic Surfactant (NIS)

- Apply 0.25 to 0.50% volume/volume (2 pt to 4 pt per 100 gal of spray solution).
- Surfactant products must contain at least 60% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12.

### Ammonium Nitrogen Fertilizer

In addition to a spray adjuvant, an ammonium nitrogen fertilizer may be used. 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.

## TANK MIXTURES

FIRSTSHOT™ SG may be used as a pre-plant burndown treatment alone or tank mixed with one or more herbicides registered for pre-plant burndown, such as 2,4-D ester, dicamba products like "Bavel"/"Clarity", glyphosate containing products, "Ignite" and Paraquat.

7/11  
Read and follow all manufacturer's label recommendations for the companion herbicide. If those recommendations conflict with this label, follow the most restrictive labeling (such as planting interval after application), or do not tank mix the herbicide with FIRSTSHOT™ SG.

## SPECIFIC WEED PROBLEMS

Applications of FIRSTSHOT™ SG alone may not provide adequate control of certain problem weeds. Acceptable control of these species can be achieved by tankmixing FIRSTSHOT™ SG with one or more herbicides labeled for burndown applications.

**Common cocklebur, common ragweed, cutleaf eveningprimrose, marestail, prickly lettuce, vetches (common, hairy), wild garlic, wild radish:** For control use FIRSTSHOT™ SG 0.6-0.8 ounce per acre in combination with 2,4-D ester 0.5-1.0 lb active ingredient per acre or dicamba (Banvel/Clarity) 0.25 lb active ingredient per acre. The addition of glyphosate, paraquat, or Ignite to the above recommended tankmixes will improve control of many species. If glyphosate-resistant marestail or common ragweed is known or suspected to be present, use the highest recommended rate of dicamba or 2,4-D ester in glyphosate tankmixes.

**Carolina geranium, henbit:** For control apply FIRSTSHOT™ SG 0.6-0.8 ounce per acre in combination with glyphosate, paraquat, or Ignite. The addition of 2,4-D ester 0.5-1.0 lb active ingredient per acre or dicamba (Banvel/Clarity) 0.25 lb active ingredient per acre may improve control of heavy populations, stressed weeds, and larger weeds.

When preplant intervals for hormone products (dicamba and 2,4-D ester) preclude their use in FIRSTSHOT™ SG combinations for control of problem weeds, apply FIRSTSHOT™ SG 0.6-0.8 ounce per acre tankmixed with glyphosate, paraquat or Ignite to achieve control or suppression of these species.

## CROP ROTATION

Labeled crops may be planted at specified time intervals following application of labeled rates of FirstShot burndown herbicide. Use the time intervals listed below to determine the required time interval before planting.

### Time Interval Before Planting\* (days after treatment with FirstShot)

Crop	Days
Barley, Rice, Triticale, and Wheat (including durum)	0
Soybeans	7
Cotton, Field Corn, and Grain Sorghum	14
Any other crop	45

\* Refer to individual product labels to determine rotational crop restrictions when tank mixtures are used.

Where FIRSTSHOT™ SG is used on light textured soils, such as sands, loamy sands and sandy loams, extend time to planting by 7 additional days.

Where FIRSTSHOT™ SG is used on high pH soils (>7.9), extend time to planting by 7 additional days.

## APPLICATION INFORMATION

### PRODUCT MEASUREMENT

DuPont™ FIRSTSHOT™ SG (with TOTALSOL® soluble granules) is measured using the FIRSTSHOT™ SG volumetric measuring cylinder. The degree of accuracy of this cylinder varies by  $\pm 7.5\%$ . For more precise measurement, use scales calibrated in ounces.

### MIXING INSTRUCTIONS

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of FIRSTSHOT™ SG
3. Continue agitation until the FIRSTSHOT™ SG is fully dissolved, at least 5 minutes.
4. Once the FIRSTSHOT™ SG is fully dissolved, maintain agitation and continue filling tank with water.
5. As the tank is filling, add tank mix partners (if desired) then add the required volume of nonionic surfactant. Always add surfactant last. Do not use with spray additives that alter the pH of the spray solution below pH 5.0 or above pH 9.0, as rapid product degradation can occur. Spray solutions of pH 6.0-8.0 allow for optimum stability of FIRSTSHOT™ SG.
6. Dispersed tank mix partners can settle if the tank mixture is not continually agitated. If settling occurs, thoroughly re-agitate before using.
7. Apply FIRSTSHOT™ SG spray mixture within 24 hours of mixing to avoid product degradation.
8. If FIRSTSHOT™ SG and a tank mix partner are to be applied in multiple loads, fully dissolve the FIRSTSHOT™ SG in clean water either in the spray tank or a separate mixing tank prior to adding the tank mix partner.

### GROUND APPLICATION

For optimum spray distribution and thorough coverage, use flat-fan or low-volume flood nozzles.

For flat-fan nozzles, use a spray volume of at least 5 gal per acre (GPA).

For flood nozzles on 30" spacings, use at least 10 GPA, flood nozzles no larger than TK10 (or the equivalent), and a pressure of at least 30 psi. For 40" nozzle spacings, use at least 13 GPA; for 60" spacings use at least 20 GPA. It is essential to overlap the nozzles 100% for all spacings.

"Raindrop RA" and air induction nozzles are not recommended for FIRSTSHOT™ SG applications, as weed control performance may be reduced.

Use screens that are 50-mesh or larger.

### AERIAL APPLICATION

Use nozzle types and arrangements that provide optimum spray distribution and maximum coverage at 5 GPA.

See the **Spray Drift Management** section of this label.

## SPRAY EQUIPMENT

For specific application equipment, refer to the manufacturer's recommendations for additional information on GPA, pressure, speed, nozzle types and arrangements, nozzle heights above the target canopy, etc.

Be sure to calibrate air or ground equipment properly before application. Select a spray volume and delivery system that will ensure thorough coverage and a uniform spray pattern with minimum drift. Use higher spray volumes to obtain better coverage when crop canopy is dense. Avoid swath overlapping, and shut off spray booms while starting, turning, slowing, or stopping, to avoid injury to the crop.

Do not make applications using equipment and/or spray volumes or during weather conditions that might cause spray to drift onto nontarget sites. For additional information on spray drift refer to Spray Drift Management section of label.

The spray equipment must be cleaned before FIRSTSHOT™ SG is sprayed. Follow the cleanup procedures specified on the labels of the previously applied products.

### AT THE END OF THE DAY

It is recommended that during periods when multiple loads of FIRSTSHOT™ SG herbicide are applied, at the end of each day of spraying the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits which can accumulate in the application equipment.

### AFTER SPRAYING FIRSTSHOT™ SG AND BEFORE SPRAYING CROPS

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of FIRSTSHOT™ SG as follows:

1. Empty the tank and drain the sump completely.
2. Spray the tank walls with clean water using a minimum volume of 10% of the tank volume. Circulate the water through the lines, including all by-pass lines, for at least two minutes. Flush the boom well and empty the sprayer. Completely drain the sump.
3. Repeat step 2.
4. Remove the nozzles and screens and clean separately in a bucket containing water.

The rinsate solution may be applied in preplant application recommended on this label. Do not exceed the maximum-labeled use rate. If cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waste disposal facility.

Notes:

1. Always start with a clean spray tank.
2. Steam-cleaning aerial spray tanks is recommended to facilitate the removal of any caked deposits.
3. When FIRSTSHOT™ SG is tank mixed with other pesticides, all cleanout procedures for each product should be examined and the most rigorous procedure should be followed.
4. In addition to this cleanout procedure, all pre-cleanout guidelines on subsequently applied products should be followed as per the individual labels.



## 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 referenced 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 AND 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 unsuitable 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 spray equipment section of this label to determine if use of an air assist sprayer is recommended.

### 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. See the Weeds Controlled section of this label for additional information on managing herbicide resistant weed biotypes.

10/11

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.

### INTEGRATED PEST MANAGEMENT

DuPont recommends the use of Integrated Pest Management (IPM) programs to control pests. 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. Application of this product should be based on IPM principles and practices including 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.

### PRECAUTIONS

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

- Do not apply, drain or flush 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.
- Take all necessary precautions to avoid all direct or indirect contact (such as spray drift) with non-target plants or areas.
- Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than wheat, barley, triticale or oat.

DuPont™ FIRSTSHOT™ SG (with TOTALSOL® soluble granules) is only registered as a burndown treatment prior to planting. Do not use in season on any crop.

Dry, dusty field conditions may result in reduced control in wheel track areas.

Do not graze livestock in treated areas. In addition, do not feed forage or hay from treated areas to livestock (harvested straw may be used for bedding and/or feed).

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store product in original container only. Store in a cool, dry place.

**Pesticide Disposal:** Wastes 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). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or 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 manufacturing or application equipment. Then dispose of sack in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Container Refilling and Disposal (For Containers up to 250 gal):** This is a refillable container. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than FIRSTSHOT™ SG. Reseal and return the container to any authorized DuPont refilling facility. If the container is not to be refilled, triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

**Container Disposal for Bulk Containers:** When this container is empty, replace the cap and seal all openings that have been opened during use, and return the container to the point of purchase or to a designated location named at time of purchase of this product. The container must only be refilled with this pesticide product. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** 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 transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, contact DuPont at 1-800-441-3637. If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

**NOTICE TO BUYER:** Purchase of this material does not confer any rights under patents of countries outside of the United States.

The DuPont Oval Logo, DuPont™, FIRSTSHOT™ and TOTALSOL® are trademarks or registered trademarks of E. I. duPont de Nemours and Company

"Banvel" and "Clarity" are trademarks or registered trademarks of BASF Corp.

"Ignite" is a registered trademark of Bayer CropScience

"Raindrop" is a registered trademark of GF Companies

**D - 1131 072607-3**

## **LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read this Limitation of Warranty and Liability Before Buying or Using This Product. If the Terms Are Not Acceptable, Return the Product at Once, Unopened, and the Purchase Price Will Be Refunded.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont. These risks can cause: ineffectiveness of the product, crop injury, or injury to non-target crops or plants. **WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.**

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, DUPONT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL DUPONT OR SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BUYER'S OR USER'S BARGAINED-FOR EXPECTATION IS CROP PROTECTION. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF DUPONT OR SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, TORT OR STRICT LIABILITY), WHETHER FROM FAILURE TO PERFORM OR INJURY TO CROPS OR OTHER PLANTS, AND RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT, OR AT THE ELECTION OF DUPONT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

To the extent consistent with applicable law that allows such requirement, DuPont or its Ag Retailer must have prompt notice of any claim so that an immediate inspection of buyer's or user's growing crops can be made. Buyer and all users shall promptly notify DuPont or a DuPont Ag Retailer of any claims, whether based on contract, negligence, strict liability, other tort or otherwise, or be barred from any remedy.

This Limitation of Warranty and Liability may not be amended by any oral or written agreement.

**For product information call: 1-888-6-DUPONT**

**Internet address: [www.dupont.com/ag/us](http://www.dupont.com/ag/us)**

**© 2007 E. I. du Pont de Nemours and Company, Crop Protection, Wilmington, Delaware 19898.**

**All rights reserved.**