



DuPont™ Afforia®

HERBICIDE

GROUP

2 and 14

HERBICIDE

For control and suppression of certain weeds in Soybeans and Fallow Land

Dispersible Granules

Active Ingredients

By Weight

Flumioxazin

2-[7-fluor-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione

40.8%

Thifensulfuron methyl

Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylate

5.0%

Tribenuron-methyl

Methyl 2-[[[N-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl]amino]sulfonyl]benzoate

5.0%

Other Ingredients

49.2%

TOTAL

100.0%

EPA Reg. No. 352-889

EPA Est. No. _____

Nonrefillable Container

Net: _____

OR

Refillable Container

Net: _____

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.

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further 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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation. Harmful if inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid breathing dust. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Long-sleeved shirt and long pants

Chemical resistant gloves made of any water proof material including polyethylene or polyvinylchloride

Shoes plus socks

Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product.

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

Important: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to non-target plants and 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. Drift or runoff may be hazardous to non-target plants and aquatic organisms in neighboring areas. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

This pesticide is toxic to plants and should be used strictly in accordance with the drift and run off precautions on this label in order to minimize off site exposures.

Under some conditions this product may have a potential to run off to surface water or adjacent land. Where possible, use methods which reduce soil erosion, such as no till, limited till and contour plowing; these methods also reduce pesticide run off. Use of vegetation filter strips along rivers, creeks, streams, wetlands or on the downhill side of fields where run off could occur will minimize water run off and is recommended.

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.

DuPont™ AFFORIA® herbicide, referred to below as DuPont™ AFFORIA®, AFFORIA® herbicide, or AFFORIA®, must be used only in accordance with instructions on this label, in separately published DuPont instructions (Supplemental Labels, Special Local Need Registrations, FIFRA Section 18 exemptions, FIFRA 2(ee) Bulletins), or as otherwise permitted by FIFRA. Always read the entire label, including the Limitation of Warranty and Liability.

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 made of any water proof material including polyethylene or polyvinylchloride

Shoes plus socks

PRODUCT INFORMATION

DuPont™ AFFORIA® herbicide is a dispersible granule formulation to be mixed with water and sprayed for selective burndown and residual weed control. When applied according to the instructions on this label, it will control many broadleaf weeds and provide partial control of nutsedge and annual grasses.

Crop injury may occur from applications made to poorly drained soils under cool, wet conditions. Risk of crop injury can be minimized by not using on poorly drained soils, planting at least 1.5 inches deep and completely covering seeds with soil.

Residual applications of AFFORIA® require rainfall or sprinkler irrigation to activate the herbicide. Degree of control and duration of effect depend on: rate used, weed spectrum, growing conditions at and following time of treatment, soil pH, texture, organic matter, moisture and precipitation.

Best residual control is obtained if AFFORIA® is applied to moist soil and followed by rainfall or irrigation (~1") before weeds germinate. Several small rainfalls of less than 1/4" each are not as beneficial as one large rainfall of 1/2-1". On dry soil, more moisture is required for activation (1-2") before weed emergence. If moisture is insufficient to activate the herbicide, a rotary hoeing or shallow cultivation should be made after emergence of the crop while weeds are small enough to be controlled by mechanical means. Deep cultivation reduces the effectiveness of AFFORIA® and should be avoided.

Excessive rainfall received in a short period of time following the emergence of soybeans treated with a preplant or preemergence application of AFFORIA® herbicide may cause minor leaf burn, crinkling, or defoliation of some lower leaves of the soybean plants.

During the growing season, excessive periods of rainfall and cool, cloudy weather may cause temporary soybean stunting. Soybeans rapidly outgrow stunting once favorable (sunny, warm temperatures) conditions return.

BIOLOGICAL ACTIVITY

AFFORIA® has two modes of action and rapidly inhibits the growth of susceptible weed species. Following application of a preplant or preemergence treatment, susceptible weeds may germinate and emerge, but growth then ceases and leaves become yellow and/or brown by 3-5 days after emergence. Death of leaf tissue and growing point will follow in some species while others will remain green but stunted and noncompetitive. Following a burndown application, growth of susceptible weeds ceases followed by tissue yellowing and browning and death of the growing point. AFFORIA® provides partial control of some annual grasses but other products may be needed to ensure adequate grass control.

RESTRICTIONS

Do not plant any crop earlier than specified on the crop rotational interval table.

Do not apply more than 3.75 ounces per acre of AFFORIA® per year. Two applications totaling 3.75 ounces per acre of AFFORIA® may be made per year.

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

Do not apply AFFORIA® to frozen or snow covered ground.

Do not perform any tillage operations after fall applications or residual weed control will be reduced

Do not apply AFFORIA® to cracking soybeans or after the soybean crop has emerged because severe injury or death of the crop will occur.

Do not irrigate when soybeans are cracking.

Do not apply AFFORIA® within 14 days before or after an application of an organophosphate insecticide on any soybean variety that is not DuPont™ BOLT®, DuPont™ STS® or STS®/RR, as severe crop injury may occur.

Do not apply this product by air within 40 feet of nontarget plants including non-target crops.

Do not apply this product by air within 100 ft. of emerged cotton crops.

Do not apply this product by air within 40 feet of streams, wetlands, marshes, ponds, lakes and reservoirs.

Do not apply within 900 feet of non-dormant pears.

Do not apply by air when wind velocity is less than 2 mph or more than 10 mph.

Do not apply during a temperature inversion, when winds are gusty, or when other conditions could produce poor coverage and/or off-target spray movement.

Do not apply AFFORIA® by air in the state of New York.

Do not apply to land that has been or will be treated with metsulfuron and/or chlorsulfuron-containing herbicides in Nebraska and Kansas without observing the rotational crop intervals for those products.

Do not apply or 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, or injury to desirable trees and plants may occur. Do not contaminate any body of water.

Do not mix/load, or use within 50 feet of all wells including abandoned wells, drainage wells, and sink holes.

Do not apply this product when weather conditions favor spray drift from treated areas.

Do not discharge excess material on the soil at a single spot in the field or mixing/loading station.

Graze treated fields or feed treated forage to livestock no sooner than 21 days after application.

Do not use low pressure and high volume hand wand equipment.

PRECAUTIONS

Crop injury may occur from applications made to poorly drained soils under cool, wet conditions.

Excessive rainfall received in a short period of time following the emergence of soybeans treated with a preplant or preemergence application of DuPont™ AFFORIA® herbicide may cause minor leaf burn, crinkling, or defoliation of some lower leaves of the soybean plants.

Excessive periods of rainfall and cool, cloudy weather may cause temporary soybean stunting.

Seedling disease, nematodes, cold weather, deep planting (more than 2”), excessive moisture, high salt concentration, or drought may weaken soybean seedlings and increase possibility of crop injury.

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, and avoid overfilling of spray tank.

When triple-rinsing the pesticide container, be sure to add the rinsate to the spray mix.

Thoroughly clean AFFORIA® from application equipment immediately after use and prior to spraying crops. Failure to remove even small amounts of AFFORIA® from application equipment may result in injury to subsequently sprayed crops.

Tank mixtures of AFFORIA® plus organophosphate insecticides applied preplant or preemergence to DuPont™ BOLT®, DuPont™ STS® or STS®/RR soybean varieties may result in minor transient crop response (i.e. stunting and/or chlorosis).

Prevent drift of spray to desirable plants.

Keep from contact with fertilizers, insecticides, fungicides and seeds during storage. Avoid storage of pesticides near well sites.

WEED RESISTANCE

AFFORIA®, which contains the active ingredients thifensulfuron methyl, tribenuron methyl and flumioxazin, is both a Group 2 and a Group 14 herbicide based on the mode of action classification system of the Weed Science Society of America.

When herbicides with mode of action classifications that affect the same biological sites of action are used repeatedly over several years to control the same weed species in the same treatment area, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that area. 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 biological 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.

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 to determine appropriate actions for treating specific resistant weed biotypes in your area.

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.

APPLICATION INFORMATION

DIRECTIONS FOR USE IN SOYBEANS

Rates

Apply DuPont™ AFFORIA® at 2.5 ounces per acre preplant or preemergence (after planting) to any soybean variety. Preemergence application must be made within 3 days after planting and prior to soybean emergence.

Apply AFFORIA® at > 2.5 and up through 3.75 ounces per acre 7 days or more prior to planting soybeans.

Apply AFFORIA® at 2.5 to 3.75 ounces per acre preplant or preemergence (after planting) to soybeans with DuPont™ Bolt® technology.

Timing

AFFORIA® may be applied any time from fall through spring.

Do not apply AFFORIA® to cracking soybeans or after the soybean crop has emerged because severe injury or death of the crop will occur.

When used for burndown, AFFORIA® is rainfast after one hour.

Planned Sequential Programs

For season-long control in soybeans, follow AFFORIA® with sequential programs based on the targeted weeds. On all soybean varieties, AFFORIA® can be used in a planned sequential application herbicide program including AFFORIA® followed by an in-crop application of DuPont™ HARMONY® SG, DuPont™ SYNCHRONY® XP or DuPont™ CLASSIC® with appropriate tank mix partners.

To ensure maximal rotational flexibility when considering a sequential program of AFFORIA® followed by other herbicides containing chlorimuron ethyl, including CLASSIC® or SYNCHRONY® XP, carefully consider: the soil pH and the crop rotation.

For glyphosate-tolerant soybeans, AFFORIA® can be followed by an in-crop application of a glyphosate product registered for this type of application, including ABUNDIT® Edge, with appropriate tank mix partners and adjuvant products.

For glufosinate-tolerant soybeans, AFFORIA® can be followed by an in-crop application of a glufosinate product registered for this type of application with appropriate tank mix partners and adjuvant products.

Read and follow all label directions and precautions for use of the respective sequential partner before using in a sequential program. Follow the most restrictive labeling. Consult a local DuPont representative; fact sheets or technical bulletins for additional information.

Tank Mixes

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Other than chloroacetamide-containing products noted below, AFFORIA® may be tank mixed with other products registered for use in soybeans. Read and follow all manufacturers label instructions for the companion herbicide. If those instructions conflict with this label; do not tank mix the herbicide with AFFORIA®. For additional broadleaf weed control, AFFORIA® may be tank mixed with chlorimuron-ethyl, linuron, metribuzin, pendimethalin or pyroxasulfone ("Zidua"). For additional grass control, AFFORIA® may be tank mixed with pendimethalin, pyroxasulfone ("Zidua") or "Command".

AFFORIA® may be applied in tank mix combinations with other products provided:

- The tank mix product is labeled for the same timing, method of application, adjuvants, and use restrictions as AFFORIA®.
- The tank mix 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.

Read and follow all label instructions on timing, precautions and warnings when tank mixing AFFORIA®. Follow the most restrictive labeling.

Weed control and crop safety resulting from the use of tank mixtures not specifically noted on this label, or in separately published DuPont information, are the responsibility of the user.

Tank mixtures of AFFORIA® plus organophosphate insecticides applied preplant or preemergence to BOLT®, STS® or STS®/RR soybean varieties may result in minor transient crop response (i.e. stunting and/or chlorosis). Do not apply AFFORIA® within 14 days before or after an application of an organophosphate insecticide on any soybean variety that is not BOLT®, STS® or STS®/RR, as severe crop injury may occur.

Do not tank mix DuPont™ AFFORIA® herbicide with acetochlor (“Warrant”), alachlor (“Micro-Tech”), flufenacet (“Axiom”, “Domain”), metolachlor (DuPont™ CINCH® herbicide, DuPont™ EVERPREX™ herbicide, “Dual Magnum”, “Dual II Magnum”, “Boundary”) or dimethenamid (“Frontier” or “Outlook”) within 14 days of planting soybeans, unless soybeans are planted under no-till or minimum tillage conditions on wheat stubble or no-till field corn stubble.

DIRECTIONS FOR USE IN FALLOW LAND

AFFORIA® may be used as a preemergence fallow treatment. AFFORIA® can be used in the fall to provide residual weed control in fallow fields. (Refer to Rotational Restrictions table for rates and rotational intervals prior to planting). If weeds have emerged at the time of application, use AFFORIA® in combination with a labeled fallow herbicide.

Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

AFFORIA® may be used in the spring in combination with labeled burndown herbicides to control emerged weeds and provide residual weed control.

WEEDS CONTROLLED

Fall or Spring Burndown of Emerged Weeds

For the best burndown results, the addition of 2,4-D LVE is recommended, and is required for control of some weeds.

For burndown of larger annual grasses or broadleaf weeds exceeding 1-3”, or for burndown of weeds not listed, AFFORIA® may be tankmixed with herbicides including DuPont™ ASSURE® II, dicamba, glyphosate, including ABUNDIT® Edge, glufosinate, paraquat, saflufenacil* or 2,4-D (LVE).

AFFORIA® herbicide, applied at 2.5 - 3.75 oz/acre, will burndown the following weeds.

*Refer to the saflufenacil or “Sharpen” label for restrictions when tank mixing with products containing Group 14/Group E herbicides.

Burndown Control of Emerged Winter Annual, Perennial, and Summer Annual Weeds

Buckwheat, common, wild*	Henbit
Bushy wallflower	Kochia*
Buttercup, bur, smallflower	Knawell, annual
Butterweed (Cressleaf groundsel)	Ladysthumb
Canola, volunteer	Lambsquarters, common, slimleaf
Chamomile, corn, false, wild	Lentils, volunteer
Chickweed, common, field, stinking	Marestail (horseweed)*
Cockle, white	Mustard, black, blue, purple, tansy, treacle, tumble, wild
Cocklebur*	Peas, volunteer
Cowcockle	Pennycress, clasping, field
Cress, mouseear	Pepperweed, Virginia
Dandelion	Pigweed, redroot
Deadnettle, purple	Ragweed, common*
Dock, broadleaf, curly	Shepherd’s-purse
Dogfennel (stinking mayweed)	Smartweed, green, Pennsylvania
Falseflax, smallseed	Sowthistle, annual
Fiddleneck, coast, tarweed	Spurry, corn
Filaree, redstem, Texas	Sunflower
Flixweed	Swinecress
Garlic, wild*	Thistle, Canada (above ground portion)
Gromwell, corn*	Yellow rocket
Groundsel, common	

*The addition of at least 8 oz a.i. per acre of 2,4-D LVE is required.

Limitations

Do not perform any tillage operations after fall applications or residual weed control will be reduced.

Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

Residual Control of Broadleaf Weeds

AFFORIA® rate for preplant or preemergence application, as well as when used as part of a burndown program, is based upon soil characteristics and the most difficult-to-control weed species being targeted for preemergence control.

Length of residual control depends on rate used, soil type and quality of activation.

DuPont™ AFFORIA® applied at 2.5 - 3.0 oz/acre

Bittercress
Carpetweed
Chickweed, Common, Mouseear
Dandelion
Deadnettle
Eclipta
Eveningprimrose, Cutleaf
Florida Pusley
Henbit
Lambsquarters
Little Mallow
Marestail/Horseweed

Mustard, wild
Nightshades, black, eastern black, hairy
Pigweeds, redroot, smooth, spiny, tumble
Prickly sida (teaweed)
Puncturevine
Redmaids
Shepherd's purse
Smallflower morningglory
Spotted spurge
Swinecress
Venice Mallow

AFFORIA® applied at >3.0 - 3.75 oz/acre Additional weeds controlled:

Amaranth (pigweed), Palmer*
Coffee Senna
Croton, tropic
Florida Beggarweed
Hemp Sesbania
Indigo, hairy
Jimsonweed
Kochia*

Morningglories, entire leaf, ivyleaf, pitted, tall
Poinsettia, wild
Ragweed, common*, giant**
Sicklepod (suppression)
Smartweed**, Ladysthumb, Pennsylvania
Vegetableleaf**
Waterhemp*, common, tall

*Naturally occurring resistant biotypes of these weeds are known to occur. A postemergence herbicide such as fomesafen or lactofen may be needed following a preplant application of AFFORIA® for adequate control in fields with heavy pressure.

** Suppression

Annual Grasses Suppressed Preemergence by AFFORIA®

Barnyardgrass
Bluegrass, annual
Crabgrass, large
Foxtail, giant
Goosegrass

Lovegrass, California
Panicum, fall, Texas
Ryegrass, Italian
Signalgrass

For season long grass control AFFORIA® may be followed as needed by a postemergence grass herbicide including DuPont™ ASSURE® II, DuPont™ CINCH® or DuPont™ EVERPREX™ herbicides. Or in glyphosate tolerant soybeans, AFFORIA® may be followed with an in-season glyphosate application, including ABUNDIT® Edge. In glufosinate tolerant soybeans, AFFORIA® may be followed with an in-season glufosinate application.

Spray Additives

Applications of AFFORIA® used for burndown must include either a crop oil concentrate or a nonionic surfactant. Crop oil concentrate is the required adjuvant system unless tank mixing with a product that does not allow use of crop oil concentrate.

Consult local DuPont fact sheets, technical bulletins, and service policies prior to using other adjuvant systems. If another herbicide is tank mixed with AFFORIA®, select adjuvants authorized for use with both products. Adjuvants must contain only EPA-exempt ingredients.

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.
- 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.

CROP ROTATION FOR FALL AND SPRING APPLICATIONS

Rotational Interval Table describes the minimum length in months from the time of AFFORIA® application until AFFORIA® treated soil can be replanted to the crops listed in the table. For Fall applications, begin counting the re-cropping interval from the normal Spring planting time in your area.

Crop rotation intervals are based on crops grown under favorable growing conditions. Crops grown under unfavorable environmental conditions, including drought, nutrient deficiency, high salts, disease and insect pressure may demonstrate

reduced tolerance to crop protection chemicals. When deciding on a particular crop to replant in your fields, carefully consider your particular soil and other field conditions. When a tank mix is used, consult the tankmix partner labels for recropping instructions and follow the directions that are most restrictive.

Crop Rotation

The following rotational crops may be planted after applying DuPont™ AFFORIA® at the listed rate. Planting earlier than the specified rotational interval may result in crop injury.

AFFORIA® Crop Rotational Interval

Crop	2.5 oz/A	> 2.5 oz/A to 3.75 oz/A
Soybean	Immediately ¹	7 days ¹
Soybeans with Bolt® technology	Immediately ¹	Immediately ¹
Field Corn – Minimum and No-Till	14 days ¹	14 days ¹
Field Corn – Conventional Tillage, Sorghum	30 days*	30 days*
Cotton, Rice, Wheat ³	30 days*	2 months*
Peanut, Sugarcane, Sweet Potato	45 days	45 days
Sunflower, Tobacco	45 days	2 months*
Barley, Dry and Snap Beans, Flax, Lentils, Peas, Rye, Safflower, Sweet Corn	3 months	4 months
Alfalfa, Clover, Oats, Sugar Beet (if soil is tilled prior to planting)	4 months	5 months
Alfalfa, Clover, Oats, Sugar Beet (if no tillage is performed)	8 months	10 months
Canola and all other crops not listed (if soil is tilled prior to planting)	4 months ²	6 months ²
Canola and all other crops not listed (if no tillage is performed)	8 months ²	12 months ²

¹ Where AFFORIA® is used on light textured soils, such as sands and loamy sands, extend time to planting by 7 additional days. Where AFFORIA® is used on high pH soils (>7.9), extend time to planting by 7 additional days.

² Successful soil bioassay must be performed prior to planting crops.

³ In the states of DE, IN, KY, MD, NJ, NC, OH, PA, SC, TN and VA, AFFORIA® may be applied at a minimum of 7 days before planting wheat if used on no-till or minimum tillage fields. Do not use on Durum wheat and do not irrigate between emergence and spike. Wheat must be planted at least 1 inch deep. Do not graze until wheat has reached 5 inches in height.

* At least one inch of rainfall/irrigation must occur between application and planting or crop injury may occur.

SPRAY TANK PREPARATION

It is important that spray equipment is clean and free of existing pesticide deposits before using AFFORIA®. Follow the spray tank cleanout procedures specified on the label of product previously sprayed. If no cleanout procedure is provided, follow the cleanout procedure below for all application equipment.

1. Thoroughly rinse sprayer, tanks, boom, and hoses with clean water.
2. Partially fill the tank with water and add one of the cleaning agents listed in the SPRAYER CLEANUP section of this label.
Complete filling the tank and flush the cleaning solution through the boom and hoses. Let stand for 15 minutes with agitation or recirculation and then drain the tank after flushing the hoses, boom, and nozzles.
3. Thoroughly rinse sprayer, tanks, boom, and hoses with clean water.
4. Follow label directions of the product previously sprayed for rinsate disposal.

During an extended period where spraying or mixing equipment will be used to apply multiple loads of AFFORIA®, at the end of each day of spraying partially fill the tank with fresh water, flush the boom and hoses and allow to sit overnight.

A steam cleaning of aerial spray tanks is recommended to dislodge any visible pesticide deposits.

EQUIPMENT/ SPRAY VOLUMES

Ground Application, conventional tillage:

Use a minimum of 10 gallons per acre to ensure uniform coverage of soil and the best performance. For best performance, select nozzle and pressure combinations that deliver coarse to very coarse spray droplets, as indicated, for example, by ASABE standard S-572.1.

Ground Application, conservation tillage- burndown:

Use a minimum of 15 gallons per acre to ensure thorough coverage of the weeds and the best performance. For small weeds and/or heavy crop residue, increase the gallonage to ensure coverage. For best performance, select nozzle and pressure combinations that deliver medium spray droplets, as indicated, for example, by ASABE standard S-572.1.

Aerial Application:

AFFORIA® may be applied by air for early preplant use on soybeans. Apply uniformly with properly calibrated aerial equipment. Use nozzle types and arrangements that will provide optimum spray distribution and maximum coverage at a minimum of 5 GPA. Avoid overlapping. Continuous agitation of the spray tank is required to keep the material in suspension.

Do not apply during a temperature inversion, when winds are gusty, or when other conditions could produce poor coverage and/or off-target spray movement.

TANK MIX COMPATIBILITY TESTING

Perform a jar test prior to tank mixing to ensure compatibility of DuPont™ AFFORIA® 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 film or layers, or other precipitates, it is not compatible.

MIXING INSTRUCTIONS

Fill tank 1/4 full with water. Start agitation system, add AFFORIA® and continue adding water. Add separately each additional component of any tank mix while adding water. Continue agitation throughout. If poor mixing occurs with any component, premix the component with two parts water before adding to the spray tank.

A fertilizer solution may be used in the spray mixture. Small quantities should be tested for compatibility by the following procedures before full-scale mixing.

1. Put 1 pint of fertilizer solution in a quart jar.
2. Mix 2 teaspoons AFFORIA® with 2 tablespoons of water; mix thoroughly and add to fertilizer solution.
3. Close jar and shake well.
4. If other herbicides are to be used in the mixture, premix 2 teaspoons of wettable powder or 1 teaspoon of liquid with 2 tablespoons of water; add to AFFORIA®/fertilizer solution mixture.
5. Close jar and shake well.
6. Watch mixture for several seconds; check again in 30 minutes.
7. If mixture does not separate, foam, gel, or become lumpy, it may be used.
8. Mixing ability may be improved by adding compatibility agents.

Provided the above procedure shows the mixture to be compatible, prepare the tank mixture as follows: Add the fertilizer solution to the spray tank first, with the agitator running, add the required amount of AFFORIA® and thoroughly mix. For tank mixtures with other herbicides, follow directions above. For tank mixtures with other herbicides, all applicable directions, restrictions and precautions for the additional herbicides are also to be followed.

Use AFFORIA® spray preparations the same day as mixed or product degradation may occur. Thoroughly reagituate and remix before using, if allowed to settle. When tank mixing with other herbicides, all applicable directions, restrictions and precautions for the additional herbicides are also to be followed.

SPRAYER CLEANUP

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

Spray equipment, including mixing vessels and nurse tanks, must be cleaned each day following AFFORIA® application. After AFFORIA® is applied, use the following steps to clean the spray equipment:

1. Drain the tank and thoroughly hose down the interior surfaces. Flush tank, boom, and hoses with clean water for a minimum of 5 minutes.
2. Partially fill the tank with clean water and add one gallon of household ammonia* (containing 3% active) for every 100 gallons of water. Complete filling the tank with water, then flush the cleaning solution through the boom, hoses, and nozzles. Add more water to completely fill the tank and allow to agitate or recirculate for at least 15 minutes. Again, flush the boom, hoses and nozzles, and drain the tank.
3. Remove the nozzles, screens and the end caps of sprayer booms and clean separately in a bucket containing water and the cleaning agent.
4. Repeat Step 2.
5. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing water through the boom and hoses.
6. To enhance removal of flumioxazin from the spray system before spraying susceptible crops, follow the above clean-out steps with ammonia, then add a tank cleaner such as "Valent Tank Cleaner" from Valent U.S.A. Corporation, and allow the cleaning solution to remain in the pressurized spray system (spray tank, hoses and boom) overnight before flushing the system for a minimum of 15 minutes. If using "Valent Tank Cleaner" follow use instructions and personal protective equipment (PPE) instructions as found on the "Valent Tank Cleaner" label.

*Equivalent amounts of an alternate strength ammonia solution or a tank cleaner recommended in separately published DuPont bulletins 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 drift management strategy is to apply the largest droplets which are consistent with pest control objectives. 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.

A droplet size classification system describes the range of droplet sizes produced by spray nozzles. The American Society of Agricultural and Biological Engineers (ASABE) provide a Standard that describes droplet size spectrum categories defined by a number of reference nozzles (fine, coarse, etc.). Droplet spectra resulting from the use of a specific nozzle may also be described in terms of volume mean diameter (VMD). Coarser droplet size spectra have larger VMD's and lower drift potential.

Controlling Droplet Size - Ground Application

- Nozzle Type - Select a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. The use of low-drift nozzles will reduce drift potential.
- Pressure - The lowest spray pressures specified for the nozzle produce the largest droplets. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, using a higher-capacity nozzle instead of increasing pressure results in the coarsest droplet spectrum.
- Flow Rate/Orifice Size - Using the highest flow rate nozzles (largest orifice) that are consistent with pest control objectives reduces the potential for spray drift. Nozzles with higher rated flows produce coarser droplet spectra.

Controlling Droplet Size - Aircraft

- Nozzle Type - Solid stream, or other low drift nozzles produce the coarsest droplet spectra.
- Number of Nozzles - Using the minimum number of nozzles with the highest flow rate that provide uniform coverage will produce a coarser droplet spectrum.
- Nozzle Orientation - Orienting nozzles in a manner that minimizes the effects of air shear will produce the coarsest droplet spectra. For some nozzles including solid stream, pointing the nozzles straight back parallel to the airstream will produce a coarser droplet spectrum than other orientations.
- Pressure - Selecting the pressure that produces the coarsest droplet spectrum for a particular nozzle and airspeed reduces spray drift potential. For some nozzle types including solid streams, lower pressures can produce finer droplet spectra and increase drift potential.

BOOM LENGTH (AIRCRAFT), AND APPLICATION HEIGHT

Boom Length (aircraft) - Using shorter booms decreases drift potential. Boom lengths are expressed as a percentage of an aircraft's wingspan or a helicopter's rotor blade diameter. Shorter boom length and proper positioning can minimize drift caused by wingtip or rotor vortices.

Application Height (aircraft) - Applications made at the lowest height that are consistent with pest control objectives and the safe operation of the aircraft will reduce the potential for spray drift.

Application Height (ground) - Applications made at the lowest height consistent with pest control objectives, and that allow the applicator to keep the boom level with the application site and minimize bounce, will reduce the exposure of spray droplets to evaporation and wind, and reduce spray drift potential.

WIND

Drift potential is lowest when applications are made in light to gentle sustained winds (2-10 mph), which are blowing in a constant direction. Many factors, including droplet size and equipment type determine drift potential at any given wind speed. **AVOID GUSTY OR WINDLESS CONDITIONS.**

Local terrain can also influence wind patterns. Every applicator is expected to 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.

SURFACE TEMPERATURE INVERSIONS

Drift potential is high during a surface temperature inversion. Surface temperature inversions restrict vertical air mixing, which may cause small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface

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. Mist or fog may indicate the presence of an inversion in humid areas.

Inversions may also be identified by producing smoke and observing its behavior. Smoke that remains close to the ground, or moves laterally in a concentrated cloud under low wind conditions indicates a surface inversion. Smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

Making applications when there is a sustained wind moving away from adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is an effective way to minimize the effect of spray drift.

DRIFT CONTROL ADDITIVES

Using product compatible drift control additives can reduce drift potential. When a drift control additive is used, read and carefully observe cautionary statements and all other information on the additive's label. If using an additive that increases viscosity, ensure that the nozzles and other application equipment will function properly with a viscous spray solution.

Preferred drift control additives have been certified by the Council of Producers & Distributors of Agrotechnology (CPDA).

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.

STORAGE AND DISPOSAL

Pesticide 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.

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

CONTAINER HANDLING: Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 50 Pounds): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 50 Pounds): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Paper or Plastic Bags, Fiber Sacks including Flexible Intermediate Bulk Containers (FIBC) or Fiber Drums With Liners: Nonrefillable container. Do not reuse or refill this container. Completely empty paper or plastic bag, fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer for recycling if available or dispose of empty paper or plastic bag, fiber sack or fiber drum and liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

Refillable Fiber Drums With Liners: Refillable container (fiber drum only). Refilling Fiber Drum: Refill this fiber drum with DuPont™ AFFORIA® herbicide containing flumioxazin, thifensulfuron methyl and tribenuron methyl only. Do not reuse this fiber drum for any other purpose. Cleaning before refilling is the responsibility of the refiller. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Disposing of Fiber Drum and/or Liner: Do not reuse this fiber drum for any other purpose other than refilling (see preceding). Cleaning the container (liner and/or fiber drum) before final disposal is the responsibility of the person disposing of the container. Offer the liner for recycling if available or dispose of liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner. To clean the fiber drum before final disposal, completely empty the fiber drum by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer the fiber drum for recycling if available or dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

All Other Refillable Containers: Refillable container. Refilling Container: Refill this container with DuPont™ AFFORIA® herbicide containing flumioxazin, thifensulfuron methyl and tribenuron methyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If damage is found, do not use the container, contact DuPont at the number below for instructions. Check for leaks after refilling and before transporting. If leaks are found, do not reuse or transport container, contact DuPont at the number below for instructions. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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