



DuPont™ Canopy XL®

herbicide



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

DUPONT™ CANOPY XL® HIGHLIGHTS

- CANOPY XL® provides selective preemergence weed control in soybeans.
- CANOPY XL® use rate is 2.5 to 9.0 oz product per acre.
- CANOPY XL® has a flexible rate range. See Rate Tables.
- CANOPY XL® may be tank mixed with many other soybean herbicides for increased weed control.
- CANOPY XL® may be applied after the Fall harvest and through the Spring for winter annual burndown and residual control of Spring annuals. See the “Expanded Application Timing” section.
- For burndown, always include a spray adjuvant, as recommended in the burndown sections of this label.
- Apply in a minimum of 10 gal. water per acre by ground using flat fan nozzles (25-40 psi) or hollow cone nozzles (40-60 psi). See Application Information.
- Certain crop rotation and pH restrictions apply. See Rotational Crop Guidelines and Soils Where CANOPY XL® May Be Used sections.
- Consult label text for complete instructions. Always read and follow label directions for use.

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Dispersible Granules

	<i>By Weight</i>
Active Ingredients	56.3%
Sulfentrazone N-[2,4-dichloro-5-[4-(difluoromethyl)- -4,5-dihydro-3-methyl-5-oxo-1H-1,2,4- -triazol-1-yl]phenyl]methanesulfonamide	46.9%
Chlorimuron Ethyl Ethyl 2-[[[(4-chloro-6-methoxypyrimidin- 2-yl)amino]carbonyl]amino] sulfonyl]benzoate	9.4%
Inert Ingredients	43.7%
TOTAL	100.0%

EPA Reg. No. 352-589

KEEP OUT OF REACH OF CHILDREN CAUTION FIRST AID

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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 further 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.

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 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

Causes moderate eye irritation. Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing dust, vapor or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

PRECAUTIONARY STATEMENTS (cont'd)

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions for Category A on 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), all ≥14 mils

Shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. 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 or enclosed cabs 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to marine/estuarine 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 and runoff may be hazardous to terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

Groundwater label advisory: Sulfentrazone is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

Do not use on coarse soils classified as sand which have less than 1 % organic matter.

Surface water advisory: Sulfentrazone can contaminate surface water through spray drift. Under some conditions, sulfentrazone may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several to many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

PHYSICAL/CHEMICAL HAZARDS

Do not use or store near heat or open flame.

IMPORTANT

Injury to or loss of desirable trees or vegetation may result from failure to observe the following: 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. Do not use on lawns, walks, driveways, tennis courts or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water. Keep from contact with fertilizers, insecticides, fungicides and seeds during storage.

Prior to using DuPont™ CANOPY XL® herbicide, consideration should be given to crop rotation plans.

Crops other than soybeans may be extremely sensitive to low concentrations of CANOPY XL® remaining in the soil the next planting season. Choice of rotation crop is restricted following application of CANOPY XL®. (See "ROTATIONAL CROP GUIDELINES" for your geographical region.)

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

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 over long-sleeved shirt and long pants.

Chemical Resistant Gloves Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all ≥ 14 mils.

Shoes plus socks.

FOR USE ON SOYBEANS ONLY

Do not apply aerially.

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

Do not feed treated soybean forage or soybean hay to livestock.

Single application: Do not apply a full rate of CANOPY XL® more than once per soybean cropping cycle.

Split application: Two applications totaling the fully labeled CANOPY XL® rate may be made per soybean cropping cycle.

Do not exceed the full labeled rate for the geography.

CANOPY XL® herbicide must be used only in accordance with recommendations on this label or in separately published DuPont recommendations.

GENERAL INFORMATION

CANOPY XL® herbicide is a dispersible granule formulation to be mixed with water and sprayed for selective preemergence and preplant incorporated weed control in soybeans. When applied according to the instructions on this label, it will control many broadleaf weeds and provide partial control of annual grasses.

Preemergence and preplant incorporated applications of CANOPY XL® 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.

*This label contains specific use directions for two distinct geographical use areas for CANOPY XL®. The **Midwest States** and the **Southern States** are defined under APPLICATION METHODS. This label also contains general use information which is applicable to all CANOPY XL® use geography, and Regional recommendations that are defined by state lists.*

BIOLOGICAL ACTIVITY

CANOPY XL® has two modes of action, and rapidly inhibits the growth of susceptible species. Following application of preplant incorporation or preemergence treatment, susceptible species germinate and emerge. Seedling weeds will then either turn brown and die shortly after exposure to light, or seedling weeds will cease growth and then turn yellow and brown from the growing point out. Susceptible species usually do not grow past the cotyledon stage before they die from either mode of action. Less susceptible species may remain green, but stunted and noncompetitive. CANOPY XL® provides partial control of some annual grasses when used preplant or preemergence, but other products may be needed to ensure adequate control.

Poor growing conditions such as excessive moisture, cool temperatures, and soil compaction or the presence of various pathogens may impact seedling vigor. Under these conditions the active ingredients in CANOPY XL®, like other soil applied herbicides, can injure soybeans. However, these early injury symptoms are short lived and do not result in yield reductions.

WEEDS CONTROLLED PREEMERGE: - ALL STATES

When used as directed DuPont™ CANOPY XL® will provide control of the following weed species:

Carpetweed	Nutsedge, Purple †
Cocklebur†	Nutsedge, Yellow †
Copperleaf, Hophornbeam	Pigweed
Copperleaf, Virginia	Palmer amaranth*
Florida beggarweed	Redroot**
Jimsonweed	Smooth**
Kochia*	Spiny amaranth
Lambsquarters**	Poinsettia, wild
Mallow, Venice	Prickly sida (teaweed)
Morningglory	Purslane, common
Annual	Ragweed, common
Ivyleaf	Ragweed, giant†
Entireleaf	Senna, Coffee
Pitted†	Smartweed (annual)
Smallflower	Spurge, Spotted
Tall	Sunflower, wild
Mustard, wild	Velvetleaf
Nightshade, Black	Waterhemp, common *
Nightshade, Eastern Black	Waterhemp, tall *†
Nightshade, Hairy	

*includes ALS and triazine-resistant strains

**includes triazine resistant strains

†Weed species which can germinate deep in the soil such as pitted morningglory, cocklebur, and giant ragweed or other weeds such as nutsedge or waterhemp which may emerge at various times during the growing season, may require a cultivation or a follow-up application of postemergence herbicides for season-long control.

When used as directed CANOPY XL® will provide partial control of the following weeds:

Barnyardgrass	Mexicanweed
Burcucumber	Panicum, Texas and fall
Crabgrass	Sesbania, Hemp
Foxtail, species	Sicklepod
Goosegrass	Signalgrass, broadleaf
Johnsongrass, seedling	

USE RATES - ALL STATES

Apply CANOPY XL® according to the Rate Tables for types of application and specific geographic areas.

RATE TABLE 1

Full Rates - Early Pre-plant, Early Pre-plant Burndown, Pre-plant Incorporated, Preemergence:

Broadcast Rate Soil Texture	Ounces Product Per Acre*		
		Organic Matter 1/2 - 4%	
Coarse: Loamy Sand, Sandy Loam	5**	--	6
Medium: Loam, Silt loam, Silt, Sandy Clay Loam	6	--	7
Fine: Silty Clay Loam, Clay Loam, Clay	6	--	8

* Use the next highest rate if heavy residues or weed pressures exist or if early applications are planned.

**For coarse soils with organic matter content 1/2 - 2%, use 5.5-6.0 oz/A for season long control of Morningglories, cocklebur and improved suppression of yellow nutsedge.

For improved control of nutsedges and pitted morningglory in the South, use 7.5-8.0 oz/A on medium soils, or 8.5-9.0 oz/A on fine soils, only in the Southern states as listed below.

APPLICATION METHODS - ALL STATES

Do not apply CANOPY XL® after the soybean crop has emerged or severe injury or death of the crop will occur.

CANOPY XL® may be applied by any of the methods listed below. These methods apply to both geographical use areas, the Midwest States and the Southern States.

Midwest States : Iowa (outside of Clarion-Nicolett-Webster and Hamburg-Ida-Monona soils), Illinois, Indiana, Kansas, Michigan, Missouri, Nebraska (south of Route 30 and East of Route 281), Ohio, Oklahoma, and Pennsylvania.

Southern States : Alabama, Arkansas, Delaware, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Missouri, North Carolina, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

Rainfall Activation for Preemergence Activity

Best results are obtained if CANOPY XL® 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.

CONSERVATION TILLAGE:

EARLY PRE-PLANT IN NO-TILL, MINIMUM TILL, OR STALE SEEDBED

CANOPY XL® applied Early Pre-plant will provide burndown of many existing weeds as well as normal preemergence broadleaf weed control. **When used for burndown, CANOPY XL® is rainfast after one hour.**

For specific burndown claims, adjuvant recommendations, CANOPY XL® use rates and other tank mixes, see:

Midwest section - Pre-plant Burndown Directions.

Southern Section - Burndown Directions.

Adjuvant requirements for burndown

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

Petroleum Crop Oil Concentrate (COC)

- Apply at 1% v/v (1 gal per 100 gal spray solution) .
- Oil adjuvants must contain at least 80% high quality, petroleum (mineral) oil with at least 15% surfactant emulsifiers.

Nonionic Surfactant (NIS)

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

Special Adjuvant Types

- In addition to the adjuvants specified above, other adjuvant types may be used if they provide the same functionality and have been evaluated and approved by DuPont Product Management. Consult separate DuPont technical bulletins for detailed information before using adjuvant types not specified on this label.

PREPLANT INCORPORATED

Uniformly incorporate DuPont™ CANOPY XL® or CANOPY XL® tank mixes no deeper than the top 1-2" of soil prior to planting soybeans. Use equipment suited to proper incorporation into the top 1-2 inches of soil, e.g.: Do-all, field cultivator, or rotterra. CANOPY XL® can be tank mixed with "Command 4EC" and applied preplant incorporated. Refer to the "Command" label for specific use instructions. If tank-mixed with a grass herbicide such as a Dinitroaniline (DNA) like "Treflan", "Sonalan", or "Prowl" or an acetanilide such as DuPont™ CINCH®, "Dual Magnum", "Frontier", or "Lasso", follow label instructions for proper incorporation of the grass herbicide into the top 1 to 2" of soil. Improper soil incorporation can result in erratic weed control or crop injury. If soil is dry, rainfall (~1") is required to activate preplant incorporated herbicides such as CANOPY XL® before weed emergence.

NOTE: Consult CINCH®, "Lasso", "Dual Magnum", "Frontier", "Prowl", "Treflan", "Sonalan", or "Command" labels for additional weeds controlled, use rates and instructions, when CANOPY XL® is used in conjunction with these herbicides.

PREEMERGENCE

CANOPY XL® can be applied preemergence in combination with such herbicides as DuPont™ AUTHORITY® (see CANOPY XL® tankmixes with AUTHORITY® section in this label), CINCH®, "Boundary", "Command 3ME", "Lasso", "Dual Magnum", "Frontier", "Prowl" or following the use of a preplant incorporated grass herbicide such as "Treflan" or "Sonalan". Consult the manufacturer's labels for rates and use instructions. When tankmixing, follow the product with the most restrictive labeling.

SEQUENTIAL APPLICATIONS - CANOPY XL® FOLLOWED BY AN APPLICATION OF POSTEMERGENCE HERBICIDE

CANOPY XL® may be applied Early Pre-plant, Pre-plant Incorporated, or Preemergence and then follow as needed with a Postemergence application of herbicides such as DuPont™ CLASSIC®, DuPont™ SYNCHRONY® STS®, or 0.083 oz/A DuPont™ HARMONY® GT. Refer to these product labels for weed claims, directions for use, and restrictions.

For planned sequential rates of CANOPY XL®, see:

Midwest Section - **Rate Table 3**

Southern Section - **Rate Table 4**

CANOPY XL® + DUPONT™ ASSURE® II TANK MIXES FOR EARLY PRE-PLANT BURNDOWN

CANOPY XL® may be tankmixed with ASSURE® II herbicide or ASSURE® II + 2,4-D LVE to provide early pre-plant burndown control of small foxtails, fall panicum, barnyardgrass, volunteer corn, shattercane, and wild proso millet.

For grass up to 3" in height, use 2.5 oz ASSURE® II

For grass >3" up to 5" in height, use 5 oz ASSURE® II

Timing of Applications

- CANOPY XL® + ASSURE® II tankmix may be applied from 30 days before planting up to just before soybean emergence.
- CANOPY XL® + ASSURE® II + 2,4-D LVE tankmix may be applied: between 7 days and 30 days before planting.

Read and follow all other restrictions and recommendations on the 2,4-D LVE and ASSURE® II labels.

EXPANDED APPLICATION TIMING FALL THROUGH SPRING

CANOPY XL® at 2.5-7 oz/acre is recommended for burndown of existing vegetation and residual weed control when applied to no-till or conservation tillage fields anytime after the Fall harvest, but prior to soybean emergence. Do not apply to frozen ground.

Application Rates

Medium and Fine Soils

1.5-4% organic matter	Planned Sequential Rate
No soil pH restriction*	2.5 oz/acre
composite soil pH of 6.8-7.0 or less**	3.5-7.0 oz/acre

*In Michigan, do not apply the 2.5 oz/acre rate to soils exceeding pH 7.6. In all other states, the soil pH is unrestricted for the 2.5 oz/acre rate.

**A composite soil pH 6.8 or less is required for Midwest states and a composite soil pH 7.0 or less is required for Southern states, except in the states of AL, AR, GA, KY, LA, MO bootheel, MS, NC, SC, TN, and TX, where up to 4 oz/acre CANOPY XL® may be used in any pH soil (see Rotational Guideline 2 for specific directions on rice).

For season-long control of all grass and broadleaf weeds following 2.5-7.0 oz/acre applications of CANOPY XL®, a planned sequential program is required. Use higher rates where longer residual control is desired.

Weeds Controlled

Burndown Control of existing winter and summer annual weeds

CANOPY XL® applications in the Fall through early Spring will provide burndown control of certain broadleaf weeds no greater than 3 inches in height and annual grasses no greater than 1 inch in height. To obtain burndown of the weed species listed below:

- addition of Crop Oil Concentrate at 1% v/v (1 gallon per 100 gallons of final spray volume) is required.
- use a minimum spray volume of 20 gallons per acre with spray nozzles that provide thorough spray coverage of the weeds to be burned down.
- 2,4-D LVE may be added for enhanced burndown control.

Annual grasses	Pennycress
Bittercress, small flowered	Pepperweed
Bushy wallflower	Pigweed
Buttercup, smallflower	Ragweed, common
Butterweed	Ragweed, giant
Catchweed, bedstraw	Shepherdspurse
Dandelion	Smartweed, annual
Deadnettle, purple, red	Speedwell, field, purselane
Garlic, wild*	Star-of-Bethlehem
Henbits	Sunflower
Lambsquarters	Tansy mustard
Lettuce, prickly	Thistle, Canadian
Marestail*	(above-ground portion)
Mustard, wild	Velvetleaf

*Addition of 1 pt 2,4-D LVE is required for the 2.5 oz/acre rate and recommended for all rates.

Chickweed Burndown

- For best results: add 0.08-0.33 oz DuPont™ EXPRESS® herbicide to DuPont™ CANOPY XL® for control of up to 6 inch common chickweed. For other weeds, EXPRESS® controls, see the EXPRESS® label. EXPRESS® must be added at least 45 days prior to soybean planting.
- Alternatively, “Sencor” or glyphosate-containing products registered for soybeans may be used for chickweed burndown.

To burndown annual grasses and broadleaf weeds listed above when they exceed the recommended heights, CANOPY XL® may be tankmixed with one or more of such products as: “Gramoxone Extra”, 2,4-D LVE, “Sencor”, or glyphosate-containing products registered for soybeans. When tankmixing with glyphosate-containing products, replace the Crop Oil Concentrate with nonionic surfactant at 0.25% v/v (1 quart per 100 gallons final spray volume) and follow the manufacturer’s instructions for ammonium sulfate addition. To select the proper burndown product, identify the weeds to be controlled and consult the product labels to determine which product is needed.

Preemergence or Residual Control

- Fall through early Spring applications of 3.5-7.0 oz/acre CANOPY XL® will provide acceptable preemergence control or partial control (suppression) of the following weeds through normal planting dates.
- Fall through early Spring applications of 2.5 oz/acre CANOPY XL® will provide limited residual control of the following weeds to contribute to a clean seed bed at planting.

Control	Suppression
Cocklebur*	annual grasses* (foxtails,
Lambsquarters	barnyardgrass, crabgrass, panicum)
Marestail	Chickweed, common
Pigweeds, redroot, smooth	Jimsonweed
Purselane	Morningglories, annual*
Speedwell	Nightshade, eastern black
Ragweed, common	Nutsedge, yellow*
Smartweeds, annual	Prickly Sida (teaweed)*
Velvetleaf	Ragweed, giant*
	Waterhemp, common, tall

* With 2.5 oz/acre applications of CANOPY XL® - heavy weed pressure, delayed planting, or adverse environmental conditions may require additional burndown control measures at planting. For enhanced residual control in early Spring applications, preemergence herbicides like 2-4 oz/acre “Sencor” may be tankmixed with 2.5 oz/acre CANOPY XL®

Planned Sequential Programs

CANOPY XL® applied under the expanded application timing will not provide adequate season-long preemergence control of annual grasses and broadleaf weeds.

- for season-long control in glyphosate-tolerant soybeans, follow CANOPY XL® with an in-season glyphosate-containing herbicide.
- for season-long control in non-GMO soybeans, follow CANOPY XL® with sequential programs based on the targeted weeds.

To insure maximal rotational flexibility when considering a sequential program of CANOPY® XL followed by DuPont™ CLASSIC® or SYNCHRONY®: consider the soil pH, the recommendations below, and consult the CANOPY XL® Crop Rotational Guidelines for your geography.

Applications of 2.5 oz CANOPY XL® to soils with pH greater than 6.8 (Midwest states) or 7.0 (Southern states):

Do not apply additional chlorimuron-ethyl-containing herbicides (DuPont™ CLASSIC®, DuPont™ SYNCHRONY®), except in the states of AL, AR, GA, KY, LA, MS, MO bootheel, NC, SC, TN, and TX, where up to 0.5 oz/acre CLASSIC® may be applied.

Applications of 2.5-7.0 oz CANOPY XL® to soils with pH less than 6.8 (Midwest states) or 7.0 (Southern states):

may be followed with a single postemergence application of CLASSIC® or SYNCHRONY® STS®.

Expanded Application Rate		
CANOPY XL® oz/acre	CLASSIC® oz/acre	SYNCHRONY® STS® oz/acre
up to 6	up to 3/4	up to 1/2
6.1-7.0	up to 2/3	up to 1/2

Refer to the sequential herbicide labels for specific information regarding use rates, application timing, crop rotations and other restrictions and precautions.

Rotational Information

Even though CANOPY XL® may be applied in the Fall, for the purposes of re-cropping, do not start counting months for re-cropping until normal soybean planting times in the Spring.

For Rotational information following Expanded Application Timing treatments:

- Midwest states of IA, IL, IN, KS, MI, MO, NE, OH, OK and PA use Rotational Guideline 1.
- Southern states of AL, AR, DE, GA, KY, LA, MD, MS, MO bootheel, NJ, NC, SC, TN, VA, and WV use Rotational Guideline 2.

DuPont™ CANOPY XL® tankmixes with DuPont™ AUTHORITY®

STATES OF AR, DE, IL, IN, IA, KS, KY, LA, MD, MI, MS, MO, NE, NJ, OH, OK, PA, TN, VA, WV

CANOPY XL® + AUTHORITY® tankmixes may be applied up to 30 days before planting soybeans, at-planting, or immediately after planting but prior to soybean emergence.

Preemergence Applications

Choose a tankmix from the list below after considering weed infestations, soil organic matter and pH, and length of residual control desired.

Tankmix rates of CANOPY XL® + AUTHORITY®

Coarse, medium, fine soil types

CANOPY XL® oz/acre*	AUTHORITY® oz/acre
1	4
2	3-4
3	2-4
4	2

*2.5 oz/A or less CANOPY XL® may be used on any pH soil in the states of DE, IL, IN, IA, KS, MD, MI (pH 7.6 or less), MO, NE, NJ, OH, OK, PA, VA and WV.

*4.0 oz/A or less CANOPY XL® may be used on any pH soil in the states of AR, KY, LA, MS, MO (Bootheel), and TN.

Weeds controlled preemergence by

CANOPY XL® + AUTHORITY® tankmixes are:

Jimsonweed	Palmer, amaranth*
Kochia*	Pigweeds**, redroot, smooth
Lambsquarters**	Prickly sida
Morningglory, entireleaf, ivyleaf, pitted, tall	Velvetleaf
Nightshade, black, eastern black	Waterhemp*, common, tall

*includes ALS and triazine-resistant strains.

**includes triazine-resistant strains.

Weeds suppressed by CANOPY XL® + AUTHORITY® tankmixes (tankmixes containing the higher rates of CANOPY XL® may give control of these weeds):

Barnyardgrass	Foxtail, giant, yellow
Cocklebur	Ragweeds, common, giant
Crabgrass	Smartweed, Pennsylvania

Burndown of existing winter and summer annuals

For Burndown of existing winter and summer annuals, see the weeds claimed and use directions under the Pre-plant Burndown of Broadleaf weeds and annual grasses - Midwest States or Southern States section of this label.

For enhanced burndown control, addition of 1 pint of 2,4-D LVE (0.5 lbs a.e/A) up to 7 days prior to planting is recommended. When using 1 oz CANOPY XL® + 4 oz AUTHORITY® and the target burndown weeds are Bittercress, Dandelion, Wild Garlic, Prickly Lettuce, Marestalk, Wild Mustard, Pennycress, Ragweeds, Shepherdspurse, Sunflower, or Canada Thistle, addition of 1 pt 2,4-D LVE is required.

For Season-long Grass and Broadleaf Weed Control

CANOPY XL® + AUTHORITY® tankmixes may not provide season-long preemergence control of annual grasses and certain broadleaf weeds. For season-long control, these tankmixes may be followed, as needed, by postemergence grass and/or broadleaf herbicides such as DuPont™ ASSURE® II, DuPont™ CLASSIC®, or DuPont™ SYNCHRONY® STS®.

- **In fields where soils have a composite pH of 6.8 or less (pH 7.0 for southern states)**, all CANOPY XL® + AUTHORITY® tankmixes may be followed with SYNCHRONY® STS®, 0.083 oz/A DuPont™ HARMONY® GT, ASSURE® II, and/or up to 3/4 oz. CLASSIC® to have optimal rotational flexibility.

- **In fields where soils have composite pH greater than 6.8 (pH 7.0 for southern states)**, and for optimal rotational flexibility:

In the states of DE, IL, IN, IA, KS, MD, MI, MO, NE, NJ, OH, OK, PA, VA, WV - do not exceed 0.25 oz a.i./acre chlorimuron ethyl per season.

In the states of AR, KY, LA, MS, MO (bootheel only), TN - do not exceed 0.375 oz a.i./acre chlorimuron ethyl per season.

Chlorimuron ethyl-containing herbicides are CANOPY XL®, CLASSIC® and SYNCHRONY® STS®. To determine the amount of chlorimuron ethyl (CE) in rates of these products, follow the formulas below, substituting the rate used for the rates shown in the examples.

2.5 oz CANOPY XL®/acre x .094 oz ai CE/oz CANOPY XL® = .235 oz ai CE/acre

.5 oz CLASSIC®/acre x .25 oz ai CE/oz CLASSIC® = .125 oz ai CE/acre

.5 oz SYNCHRONY® STS®/acre x .318 oz ai CE/oz SYNCHRONY® STS® = .159 oz ai CE/acre

For season-long control, CANOPY XL® + AUTHORITY® tankmixes may also be tankmixed or followed as needed with preemergence herbicides such as DuPont™ CINCH®, “Boundary”, “Lasso”, “Dual Magnum”, “Dual II Magnum”, “Prowl”, “Command”, “Frontier”, or “Sencor”.

Rotational Intervals for CANOPY XL® + AUTHORITY® Tankmixes

For IL, IN, IA, KS, MI, MO (except the bootheel), NE, OH, OK and PA, follow Rotational Guideline 1 in this label.

For AR, DE, KY, LA, MD, MS, MO (bootheel), NJ, TN, VA and WV, follow Rotational Guideline 2 in this label.

MIDWEST STATES - SPECIFIC USE DIRECTIONS

DuPont™ CANOPY XL® may be used in the following

Midwest States: Indiana, Illinois, Iowa, Kansas, Michigan, Missouri (except bootheel), Nebraska (fields South of Route 30 and East of Route 281), Ohio, Oklahoma, and Pennsylvania.

- CANOPY XL® may be applied at planting or up to 30 days before planting except as specified in this label or on other DuPont supplemental labeling.

Giving careful consideration to soil type, soil pH, organic matter, rotational crop intervals, geographic location, and weed pressure, select a rate of CANOPY XL® from Rate Table 1. Apply CANOPY XL® Early Preplant, Preplant Incorporated, or Preemergence, in Conservation or Conventional Tillage, as directed in the Application Methods Section of this label.

- For rates of CANOPY XL® higher than 2.5 oz/acre, do not apply to soil with greater than a composite pH 6.8.

Use of greater than 2.5 oz/acre CANOPY XL® on soils which exceed composite pH 6.8 may result in unacceptable injury to the following crop. To minimize carryover risk in fields with isolated soil pH's exceeding 6.8 and where the CANOPY XL® rate exceeded 2.5 oz/acre, plant soybeans as a follow-crop.

For Season-Long Grass Control - Midwest States

CANOPY XL® may not provide season-long preemergence control of grasses. For improved grass control, CANOPY XL® may be:

- followed as needed by a postemergence grass herbicide such as DuPont™ ASSURE® II herbicide.
- tankmixed with other grass herbicides such as “Lasso” (or other products containing the active ingredient alachlor and registered for use on soybeans), DuPont™ CINCH®, “Boundary”, “Dual Magnum”, “Prowl”, “Command”, “Frontier”, “Commence”, “Treflan” (or other products containing the active ingredient trifluralin and registered for use on soybeans), or “Sonalan”.

Refer to the label of the tankmix partner or the post grass herbicide for specific information regarding use, rates, pre-plant intervals, application timing, grasses controlled, precautions, restrictions and other information. Follow the product label with the most restrictive labeling when using CANOPY XL® in combination with other herbicides.

PRE-PLANT BURNDOWN OF BROADLEAF WEEDS AND ANNUAL GRASSES - MIDWEST STATES

In addition to providing preemergence control of certain broadleaf weeds and partial control of other broadleaf weeds and annual grasses, CANOPY XL® will provide burndown control of the following broadleaf weeds up to 3” and annual grasses up to 1”.

Annual grasses	Nightshade species
Bittercress, small flowered	Pennycress
Bushy wallflower	Pepperweed
Buttercup, smallflower	Pigweeds
Butterweed	Ragweed, common
Catchweed bedstraw	Ragweed, giant
Chickweed*	Shepherd's-purse
Dandelion	Smartweeds, annual
Deadnettle, purple, red	Speedwell, purselane
Garlic, wild**	Star-of-Bethlehem
Henbit	Sunflower
Lambsquarters	Tansy mustard
Lettuce, prickly	Thistle, Canadian (above ground portion)
Marestail**	Velvetleaf
Mustard, wild	Waterhemp species

* Always add “Sencor” or a glyphosate-containing product registered for soybeans.

** Addition of 1 pt 2,4-D LVE recommended.

For Burndown control, pick a rate between 3.5 to 8.0 oz CANOPY XL®, depending on the length of residual required.

- Always add crop oil concentrate at 1% v/v (1 gallon per 100 gallons of spray mix).
- For best burndown results, use a minimum of 20 gallons per acre with spray nozzles that provide thorough spray coverage of the weeds to be burned down.

For burndown of larger annual grasses or broadleaf weeds exceeding 2-3”, or for burndown of weeds not listed above, CANOPY XL® may be tankmixed with one or more of the following:

2,4-D (LVE)
ASSURE® II
“Gramoxone Extra”
“Sencor”

Glyphosate-containing products registered for soybeans.

To select the proper tankmix product, identify the weeds which need to be controlled and consult the product labels to determine which product is needed. Consult the companion tankmix herbicide label for use instructions, rates, precautions, restrictions, and other use information. When tank-mixing with glyphosate-containing products, substitute 0.25% NIS for the 1% COC and follow the manufacturer's instructions for ammonium sulfate addition.

2,4-D (LVE) is the isooctyl (2-ethylhexyl) ester of 2,4-Dichlorophenoxyacetic acid. This product is sold under a variety of trade names. It has a minimum preplant interval of 7-30 days based on the rate used. Consult the label of the product used for specific information on this interval.

DUPONT™ CANOPY XL® TANKMIXES WITH “SENCOR” OR “LOROX” - MIDWEST STATES

CANOPY XL® may be applied at reduced rates when tankmixed with “Sencor” or “Lorox” herbicides. These tankmixes will generally provide season-long preemergence weed control for the weeds listed below. When used according to the directions in the previous section for Burndown control, these tankmixes will also provide Burndown control of the weeds claimed in the previous section.

Reduced rates of CANOPY XL® tankmixed with “Sencor” or “Lorox” will generally provide season-long preemergence control of the following weeds:

Lambsquarters	Ragweed, Common
Mustard, wild	Smartweeds, annual
Pigweeds:	Velvetleaf
Palmer	
Redroot	
Smooth	
Spiny amaranth	

CANOPY XL® + “Sencor” or “Lorox” tankmixes will provide partial control (suppression) preemergence of the following weeds:

Cocklebur	Morningglories
Crabgrass	Entireleaf
Foxtail species	Ivyleaf
Jimsonweed	Pitted
Ragweed, Giant	Tall

Choose a reduced rate of CANOPY XL® and a rate of “Sencor” or “Lorox” from Rate Table 2 below.

RATE TABLE 2

Reduced Rate CANOPY XL® Tankmixes with “Sencor” or “Lorox”

Broadcast Rate	Ounces Product Per Acre		
Soil Texture	1/2 - 4% Organic Matter		
	CANOPY XL® + “Sencor” or “Lorox”		
Coarse:			
Loamy sand,			
Sandy Loam	3.5 - 4.5	2 - 4	8-20
Medium or Fine:			
Loam,			
Silt Loam, Silt			
Sandy Clay Loam,			
Silty Clay Loam			
Clay Loam, Clay	3.5 - 4.5	4 - 6	8-24

SEQUENTIAL APPLICATIONS WITH POSTEMERGENCE HERBICIDES - MIDWEST STATES

CANOPY XL® may be followed, as needed, by sequential applications of such postemergence herbicides as DuPont™ CLASSIC®, DuPont™ SYNCHRONY® STS®, or 0.083 oz/A DuPont™ HARMONY® GT using **Rate Table 3** below. Refer to the CLASSIC®, SYNCHRONY® STS®, and HARMONY® GT labels for all claims, use directions, and restrictions associated with these products.

RATE TABLE 3

Sequential applications: CANOPY XL® followed by a single Postemergence Application

Broadcast Rate Ounces Product Per Acre	Sequential Post Application (oz/a)
3.5 - 6.0	CLASSIC® up to 3/4 oz, SYNCHRONY® STS®, 1/12 oz HARMONY® GT
3.5 - 7.0	CLASSIC® up to 2/3 oz, SYNCHRONY® STS®, 1/12 oz HARMONY® GT
3.5 - 8.0	1/4 oz CLASSIC®, 1/12 oz HARMONY® GT

* Consult appropriate SYNCHRONY® STS® label for use rate.

“ROUNDUP READY” SOYBEANS:

These CANOPY XL® use rates may be used in “Roundup Ready” soybeans and followed by appropriate postemergence applications of “Roundup UltraMax”, “Touchdown” or glyphosate-containing products registered for soybeans. Read and follow the tankmix partner label for use instructions, rates, precautions, restrictions, and other use information.

ROTATIONAL GUIDELINES FOR ALL CANOPY XL® APPLICATIONS - MIDWEST STATES

The following recropping table pertains to the states of Illinois, Indiana, Iowa (except Nicolett-Clarion-Webster and Hamburg-Ida-Monona soils), Kansas, Michigan, Missouri (except bootheel), Nebraska (fields South of Route 30 and East of Route 281), Ohio, Oklahoma, and Pennsylvania.

When used as described in the Midwestern section of this label, the table describes the minimum length in months from the time of CANOPY XL® application until CANOPY XL® treated soil can be replanted to the crops listed in the table.

When used as described in “Expanded Application Timing”, begin counting the months of the recrop interval from normal soybean planting time in the spring.

When a recommended tank mix is used, consult the tankmix partner labels for recropping instructions and follow the directions that are most restrictive.

Crop rotation intervals noted in the table below are based on crops grown under favorable growing conditions. Crops grown under unfavorable environmental conditions, such as 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.

ROTATIONAL GUIDELINE 1

MIDWEST STATES: ALL LABELED DUPONT™ CANOPY XL® USES

For the Midwest States : IA, IL, IN, KS, MI, MO, NE, OH, OK, PA

Crop	Recropping Interval in Months
Soybeans †	Anytime
Wheat, Barley, Rye, Oats	4
Alfalfa	12
Rice	10
Sorghum	10
Tobacco (transplant)	10
Tomato (transplant)	12
Field Corn *	10
Dry Beans	12
Clover, Cotton, Cucumber, Flax, Pumpkin, Sunflower, Sweet Corn, Watermelon, Cabbage, Lentils, Mustard	18‡
Canola (rapeseed), Carrot, Onion, Potato, Sugar Beets and any other crop not listed	30‡

* Field Corn is defined to include only that corn grown for grain or silage, popcorn, and seed corn. However, because seed corn inbred lines may vary in their sensitivity to trace amounts of herbicide carryover, DuPont cannot warrant that seed corn can be recropped without damage or yield loss. Users should seek the advice of their seed corn company agronomists regarding inbred sensitivity to herbicides prior to planting any inbred lines.

† Do not feed treated soybean forage or soybean hay to livestock.

‡ Crops that have rotational intervals greater than 12 months after a CANOPY XL® application are the result of crop injury concerns.

SOUTHERN SECTION

- SPECIFIC USE DIRECTIONS

CANOPY XL® may be used in the following Southern States: Alabama, Arkansas, Delaware, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Missouri bootheel, New Jersey, North Carolina, South Carolina, Tennessee, Texas, Virginia and West Virginia.

- CANOPY XL® may be applied at planting or no more than 30 days before planting, except as specified in this label or on other DuPont supplemental labeling.
- Do not use CANOPY XL® where cotton will be planted the following year.
- For maximal rotational flexibility, apply to soils with a pH 7.0 or less except as specified in this label or on other DuPont supplemental labeling.

- Do not apply to Black Belt Soils of Alabama and Mississippi with a soil pH greater than 7.0 or history of nutrient deficiency such as iron chlorosis, as injury may occur.
- Injury to soybeans may occur if CANOPY XL® is used on soils having a calcareous surface layer or pH greater than 7.5.

Giving careful consideration to soil type, soil pH, organic matter, rotational crop intervals, geographic location, and weed pressure, select a rate of CANOPY XL® from **Rate**

Tables 1 or 4. Apply CANOPY XL® Early Preplant, Preplant Incorporated or Preemergence as directed in the Application Methods section of this label.

For Season-Long Grass Control - Southern States

CANOPY XL® may not provide season-long preemergence control of grasses. For improved grass control, CANOPY XL® may be:

- followed as needed by a postemergence grass herbicide such as DuPont™ ASSURE® II herbicide.
- Tank mixed with “Lasso” (or other products containing the active ingredient alachlor and registered for use on soybeans), DuPont™ CINCH®, “Boundary”, “Dual Magnum”, “Prowl”, “Command 4EC”, “Command 3ME”, “Frontier”, “Commence”, “Treflan”, or “Sonalan”.

Refer to the label of the tankmix partner or the post grass herbicide for specific information regarding use, rates, pre-plant intervals, application timing, grasses controlled, precautions, restrictions and other information. Follow the product label with the most restrictive recropping restrictions when using CANOPY XL® in combination with other herbicides.

FOR BURNDOWN AND/OR RESIDUAL WEED CONTROL IN STALE SEEDBED OR CONSERVATION TILLAGE PRODUCTION SYSTEMS - SOUTHERN STATES

In addition to providing preemergence control of many broadleaf weeds and grasses, CANOPY XL® will provide burndown control of the following broadleaf weeds up to 3” and annual grasses up to 1”.

Annual grasses	Mustard, wild
Bittercress, small flowered	Nightshade species
Bushy wallflower	Nutsedge, yellow
Buttercup, smallflower	Pennycress
Butterweed	Pepperweed
Carolina geranium*	Pigweeds
Catchweed bedstraw	Ragweed, common
Chickweed*	Ragweed, giant
Curly dock*	Shepherd’s-purse
Cutleaf evening primrose*	Smartweeds, annual
Dandelion	Speedwell, purselane
Deadnettle, purple, red	Star-of-Bethlehem
Garlic, wild*	Sunflower
Henbit	Tansy mustard
Lambsquarters	Thistle, Canadian (above ground portion)
Lettuce, prickly	Trumpet creeper*
Marestail*	Velvetleaf
Morningglories, annual	Waterhemp species

* Always add an appropriately labeled burndown tank mix partner such as a glyphosate-containing product, 2,4 -D LVE, or “Gramoxone Extra” to control these weeds.

Always include one of the following adjuvants in burndown applications of CANOPY XL®:

- Nonionic surfactant at a rate of 0.25% (1 quart per 100 gallons of spray solution)
- Crop oil concentrate at a rate of 1% v/v (1 gallon per 100 gallons of spray solution)

For burndown of annual grasses exceeding 1” or for broadleaf weeds exceeding 3”, or for weeds not listed above, CANOPY XL® may be tankmixed with either 2,4-

D LVE, “Gramoxone Extra”, “Starfire”, or a glyphosate-containing product registered for soybeans.

Consult the product labels for specific use instructions, rates, restrictions, limitations, and precautions. For DuPont™ CANOPY XL® tankmixes with glyphosate, substitute 0.25% NIS for 1% COC.

When primarily burndown control with limited residual is desired, apply CANOPY XL® at 2.5 - 4 oz/acre. Select the higher rate for larger weeds.

When burndown plus in-season residual is desired, CANOPY XL® may be applied:

- at full rates and applied up to 30 days prior to planting. Select a rate from Rate Table 1 based on soil type.
- at reduced rates from Rate Table 4 when followed by a planned post application of appropriate herbicide(s). Rate selection should be based on weed size at the time of burndown application, soil type as related to residual control and pH, and the proposed post herbicide program. In order to obtain adequate residual control until the planned post herbicide application, the reduced rate of CANOPY XL® should be applied no earlier than 14 days prior to planting.

Split applications of CANOPY XL® may be used as long as the full labeled use rate (Rate Table 1) for the geography is not exceeded.

REDUCED RATE OF CANOPY XL® FOLLOWED BY PLANNED POST HERBICIDE APPLICATIONS - SOUTHERN STATES

CANOPY XL® at the following rates applied pre-plant incorporated or preemergence will provide early season residual control and suppression of the weeds listed under the “Weeds Controlled Preemerge-All States” section of this label.

RATE TABLE 4

Reduced CANOPY XL® rates followed by planned post application of herbicide(s)

Broadcast Rate Soil Texture	Ounces Product Per Acre 1/2 - 4% Organic Matter
Variable, high pH*:	2.5 - 4.0
Coarse - Medium: Loamy Sand, Sandy Loam Loam, Silt loam, Silt, Sandy Clay Loam	4.5- 6.0
Fine: Silty Clay Loam, Clay Loam, Clay	6.0 - 7.0

* For optimal rotational flexibility in variable, high pH soils, up to 3.2 oz/acre CANOPY XL® may be followed, in some states, by a chlorimuron ethyl-containing herbicide (DuPont™ CLASSIC® or SYNCHRONY® STS®), but greater than 3.2 oz should not be followed by a chlorimuron-ethyl-containing herbicide in any state. See Rotational Guideline 2.

Program approach: Soybeans designated as “Roundup Ready”

As a planned program in soybeans designated as “Roundup Ready”, reduced rate applications of CANOPY XL® should be followed by a properly timed application of postemergence herbicides such as CLASSIC® + “Roundup UltraMax”, CLASSIC® + “Touchdown”, or CLASSIC® + a generic glyphosate-containing product registered for soybeans. Consult the CLASSIC® and other manufacturer labels for specific use instructions, weeds controlled, restrictions, and all precautions.

Program approach: Soybeans NOT designated as “Roundup Ready”

As a planned program in soybeans NOT designated as “Roundup Ready”, reduced rate applications of CANOPY XL® should be followed by a properly timed application of postemergence herbicides such as CLASSIC®, SYNCHRONY® STS®, or CLASSIC® + DuPont™ HARMONY® GT herbicides.

ROTATIONAL GUIDELINES FOR ALL CANOPY XL® APPLICATIONS - SOUTHERN STATES

The following recropping table is for the states of Alabama, Arkansas, Georgia, Louisiana, Mississippi, Texas, Missouri bootheel, Delaware, Kentucky, Maryland, New Jersey, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia.

When used as described in the Southern section of this label, the table describes the minimum length in months from the time of CANOPY XL® application before CANOPY XL® treated soil can be replanted to the crops listed in the table.

When used as described in 'Expanded Application Timing', begin counting the months of the recrop interval from normal soybean planting time in the spring.

When a recommended tank mix is used, consult the tankmix partner labels for recropping instructions and follow the directions that are most restrictive.

Crop rotation intervals noted in the table below are based on crops grown under favorable growing conditions. Crops grown under unfavorable environmental conditions, such as 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.

ROTATIONAL GUIDELINE 2

SOUTHERN STATES: ALL LABELED DUPONT™ CANOPY XL® USES

For the Southern States of AL, AR, DE, GA, KY, LA, MD, MS, MO BOOTHEEL, NJ, NC, SC, TN, TX, VA & WV

GROUP I

**No soil pH restriction
(up to 4 oz/acre CANOPY XL® applied)**

- States of DE, MD, NJ, VA, and WV: Use rate 2.5 oz/A or less; or total chlorimuron-ethyl per season does not exceed 0.25 oz a.i. per acre.
 - States of AL*, AR, FL, GA, KY, LA, MO (bootheel), MS*, NC, SC, TN and TX (fields east of Rt. 183) when total chlorimuron-ethyl per season does not exceed 0.375 oz a.i. per acre, OR:
 - 2.0 oz/acre or less is followed with up to 0.75 oz/acre CLASSIC®
 - 2.5 oz/acre is followed with up to 0.5 oz/acre CLASSIC®
 - 3.2 oz/acre is followed with up to 0.33 oz CLASSIC®
 - greater than 3.2 oz/acre up to 4.0 oz/acre is not followed with any chlorimuron ethyl-containing product, such as CLASSIC® or SYNCHRONY® STS® herbicides
 - see Rice in the table below for specific instructions regarding soil pH
 - to calculate the amount of chlorimuron ethyl in CANOPY XL®, CLASSIC® or SYNCHRONY® STS®, see page 6.
- * Except the "Black Belt" soils in AL and MS, where the pH must not exceed 7.0

Soil pH 7.0 or less; all southern states

- States of AL, AR, GA, LA, MS or TX
- States of DE, KY, MD, MO Bootheel, NJ, NC, SC, TN VA or WV - Use rate 6.4 oz./A or less.

GROUP II

Soil pH greater than 7.0

- greater than 2.5 oz/acre applied in DE, MD, NJ, VA, or WV
- greater than 4 oz/acre applied in AL, AR, GA, KY, LA, MS, MO (bootheel), NC, SC, TN, or TX

Crops	Group I	Group II
Soybeans †	Anytime	Anytime
Wheat, Barley, Rye	4	4
Alfalfa	12	18‡
Clover	18	18‡
Field Corn *	10	18‡
Sorghum	10	18‡
Rice	10**	18‡
Tobacco (Transplant)	10	18‡
Tomato (Transplant)	12	18‡

Cotton, Cucumber, Flax, Pumpkin, Sunflower, Sweet Corn, Watermelon, Cabbage, Canola (rapeseed), Lentils, Mustard, Carrot, Onion, Potato, Sugar Beets and any crop not listed above

18‡ 30‡

* Field Corn is defined to include only that corn grown for grain or silage, popcorn, and seed corn. However, because seed corn inbred lines may vary in their sensitivity to trace amounts of herbicide carryover, DuPont cannot warrant that seed corn can be recropped without damage or yield loss. Users should seek the advice of their seed corn company agronomists regarding inbred sensitivity to herbicides prior to planting any inbred lines.

** in soil with pH 7.0 or less, replant rice after 10 months; in soil with pH greater than 7.0, replant rice after 18 months.

† Do not feed treated soybean forage or soybean hay to livestock.

‡ Crops that have rotational intervals greater than 12 months after a CANOPY XL® application are the result of crop injury concerns.

APPLICATION INFORMATION

EQUIPMENT/SPRAY VOLUMES

Ground Application: Apply uniformly by ground equipment with a properly calibrated low pressure (20 to 40 psi) fixed-boom sprayer equipped with fan-type nozzles and screens no finer than 50 mesh. Use 10 to 40 gals of water per acre. Avoid overlap and shut off spray booms while starting, turning, slowing or stopping, as injury to the crop may result. **Continuous agitation in the spray tank is required to keep the material in suspension.**

SPRAY TANK PREPARATION

It is important that spray equipment is clean and free of existing pesticide deposits before using CANOPY XL®. Follow the spray tank cleanout procedures specified on the label of product previously sprayed. If no cleanout procedure is provided, follow the cleanout procedure in **SPRAYER CLEANUP** section of this label.

Mixing Instructions

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of CANOPY XL®.
3. Once the CANOPY XL® is fully dispersed, maintain agitation and continue filling tank with water.
4. **CANOPY XL® should be thoroughly mixed with water in the spray tank before adding any other material.** As the tank is filling, add (in order): other herbicide(s), the required spray adjuvant, and the nitrogen fertilizer where required.
5. Apply CANOPY XL® spray preparation within 24 hours of mixing to avoid product degradation.
6. If the mixture has settled, thoroughly reagitate before using.

Proper Handling Instructions

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash-water, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad; which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at least 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding well-head setbacks and operational containment. Do not use flood irrigation to apply or incorporate this product.

Product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

SPRAYER CLEANUP

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of DuPont™ CANOPY XL® as follows:*

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.
2. Partially fill the tank with water and add one of the cleaning agents listed below. Complete filling the tank with water, then flush the cleaning solution through the boom, hoses, and nozzles. Add 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 and screens 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.

NOTE: Use any of the following cleaning agents. Carefully read and follow the individual cleaning agent instructions.

1. One gallon of household ammonia (contains 3% active) per 100 gallons of water.
2. Nutra-Sol
3. Loveland Tank and Equipment Cleaner
4. Protank Cleaner
5. Chem-Tank Cleaner and Neutralizer
6. Incide-Out
7. Tank-Aid

*A steam cleaning of fiberglass or stainless steel aerial spray tanks is recommended prior to performing the above cleanout procedure to facilitate the removal of any caked deposits.

THE IMPORTANCE OF SOIL PH - ALL STATES

Soil pH varies greatly, even within the same field. pH variations as much as 2 pH units are common. Composite soil samples taken across an entire field, such as those samples taken for soil fertility recommendations, may not detect areas of high pH. Sub-sampling is recommended for areas likely to have pH values higher than the field average. The following is a non-inclusive list of potential high pH areas where subsampling is recommended.

- Where different soil types are evident within a field, sample soil types separately.
- Where conditions vary within a field, sample areas separately, such as:
 - areas bordered by limestone gravel roads,
 - river bottoms subject to flooding,
 - low areas in hardpan soils where evaporative ponds may occur,
 - eroded hillsides,
 - along drain tile lines, and
 - areas where drainage ditch spoil has been spread.
- Where lime has not been deeply incorporated, soil may exhibit significantly higher pH values in the upper 3 inches of soil. Composite soil samples taken at a 6-8 inch depth may not reflect the elevated pH near the surface. In these cases shallow sampling, the upper 3 inches, is advised.

Determine soil pH by laboratory analysis using a 1:1 soil:water suspension.

SPRAY DRIFT MANAGEMENT - ALL STATES

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.

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 GROUND 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 application equipment section of this label to determine if use of an air assisted 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. Do not let weed escapes go to seed. If applicable, see Weeds Controlled section of label for additional information on managing herbicide resistant weed biotypes.

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

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 which 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 or site systems in your area.

IMPORTANT PRECAUTIONS - ALL STATES

1. Because most crops are highly sensitive to DuPont™ CANOPY XL®, all direct or indirect contact (such as spray drift) to crops or to land scheduled to be planted to crops other than soybeans should be avoided.
2. Soybean stunting may occur if excessive rainfall occurs after application but before soybeans emerge. Injury is more prevalent under poor drainage or compacted conditions or when soil is saturated for long periods of time. Soybeans rapidly outgrow stunting once favorable growing conditions return.
3. Do not apply CANOPY XL® if there are visible signs of cracking due to soybean emergence, or serious crop injury may result.
4. Seedling disease, nematodes, cold weather, deep planting (more than 2”), excessive moisture, high salt concentration, or drought may weaken soybean seedlings and increase the possibility of crop injury.
5. Do not apply to land that has been or will be treated with DuPont™ ALLY®, DuPont™ GLEAN®, or DuPont™ FINESSE® herbicide in Nebraska and Kansas without observing the rotational crop intervals for those products.
6. 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
7. Do not use on lawns, walks, driveways, tennis courts or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water. Keep from contact with fertilizers, insecticides, fungicides and seeds during storage.
8. Thoroughly clean CANOPY XL® from application equipment immediately after use and prior to spraying crops other than soybeans. Failure to remove even small amounts of CANOPY XL® from application equipment may result in injury to subsequently sprayed crops.
9. Do not tank mix CANOPY XL® with organophosphate insecticides. Do not apply CANOPY XL® within 14 days before or after an application of an organophosphate insecticide, as severe crop injury may occur.

STORAGE AND DISPOSAL

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

STORAGE: Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place. **For Bulk Plastic Refill Containers:** Keep container dry--store under cover. Do not break tamper evident seal.

PRODUCT 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 Paper and Plastic Bags: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. **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 if allowed by State and local authorities. **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 Drums With Liners:** Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner. **For Bags Containing Water Soluble Packets:** Do not reuse the outer box or the resealable plastic bag. When all water-soluble packets are used, the outer packaging should be clean and may be disposed of in a sanitary landfill or by incineration, or if allowed by State and local authorities, by open burning. If burned, stay out of smoke. If the resealable plastic bag contacts the formulated product in any way, the bag must be triple-rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer wrap as described above.

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SL - 888 030703 12-19-03

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