

PM 23
1471-157

61901

COMMENCE™ E
HERBICIDE

A selective herbicide for the control of annual grasses and broadleaf weeds in soybeans. Do not use in California.

For Agricultural or Commercial Use Only

EPA Reg. No. 1471-157

EPA Est. 279-

Active Ingredients:

By Wt.

Trifluralin: (α, α, α -trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine).....	33.2%
2-(2-Chlorophenyl)methyl-4,4-dimethyl-3-isoxazolidinone*.....	24.9%
Inert Ingredients:**.....	41.9%
	<u>100.0%</u>

Contains a total of 5.25 pounds active ingredient per gallon

*U.S. Patent No. 4,405,357

**Contains xylene range aromatic solvents

Commence herbicide is serviced and promoted by FMC Corporation and Elanco Products Company.

KEEP OUT OF REACH OF CHILDREN
DANGER

ACCEPTED
JAN 20 1988
1471-157

FIRST AID

If in eyes: Hold eyelids open and flush immediately with large amounts of water. Call a physician immediately.

If swallowed: Call a physician or Poison Control Center. This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. If this happens and the patient is conscious, immediately administer activated charcoal (6-8 heaping teaspoonfuls) with water. In the absence of depression, convulsions, or impaired gag reflex, vomiting can be induced with a blunt instrument or finger. Make certain vomitus is not inhaled by keeping hips higher than head. If patient is unconscious, do not induce vomiting.

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

If inhaled: Remove individual to fresh air. If not breathing, provide cardiopulmonary resuscitation assistance and get medical attention.

See other panels for additional precautionary information,

Elanco Products Company
A Division of Eli Lilly and Company
Indianapolis, IN 46285

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PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

Danger

Causes irreversible eye damage. Do not get in eyes. Wear goggles, face shield, or safety glasses when handling. Harmful if swallowed or inhaled. Avoid breathing spray mist and contact with skin or clothing. Commence E may cause skin sensitization reactions in certain individuals. Use protective clothing such as coveralls, a long-sleeved shirt and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water or wetlands (swamps, bogs or marshes). Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites. Do not contaminate water by cleaning of equipment or disposal of wastes.

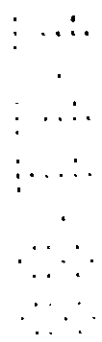
SPECIAL PRECAUTION

Off-site movement of spray drift or vapors of Commence E herbicide can cause foliar whitening or yellowing of some plants. Prior to making applications, read and strictly follow all precautions and application instructions on this label.

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 through any type of irrigation system.



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STORAGE AND DISPOSAL

Pesticide Storage

Do not freeze. Do not store below 40°F. If solid crystals are observed, warm material to about 60°F by placing container in warm location. Shake or roll container periodically to redissolve solids.

Keep out of reach of children and animals. Store in original containers only. Store in a dry place. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.

To confine spill: Dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in a holding container. Identify contents.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not cut or weld metal containers.

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ENDANGERED SPECIES RESTRICTIONS

The following restrictions apply to use of this product after February 1, 1988.

Before using this pesticide on soybeans in the counties listed below, you must obtain the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES for the county in which the product is to be used. The bulletin is available from your County Extension Agent, State Fish and Game Office, or your pesticide dealer. Use of this product in a manner inconsistent with the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES is a violation of Federal laws.

Alabama

Lauderdale, Limestone and Madison

Arizona

Graham, Maricopa, Mohave, Pima, Pinal and Santa Cruz

Arkansas

Benton and Polk

California

Butte, Colusa, Glenn, Merced, Sacramento, Solano, Sutter, Tehama and Yolo

Mississippi

Claiborne, Copiah and Hinds

Missouri

Barry, Benton, Camden, Christian, Dallas, Greene, Hickory, Jasper, Lawrence, Miller, Newton, Osage, Polk, St. Clair, Stone and Webster

Nevada

Clark

New Mexico

Chaves, DeBaca and Eddy

Ohio

Pickaway

Oklahoma

Delaware, McCurtain and Pushmataha

Oregon

Lake

Tennessee

Lawrence and Wayne

Texas

Bastrop, Burleson, Comal, Harris, Hays, Jeff Davis, Pecos and Reeves

Utah

Utah and Washington

GENERAL INFORMATION

Commencetm E selective herbicide must be utilized as a soil incorporated treatment for the control of annual grass and broadleaf weeds in soybeans..

Commence E herbicide may be tank mixed with or followed by overlay or postemergence treatments of other soybean herbicides to broaden weed control spectrum compared to the products applied alone. Commence E may be tank mixed with Lexone^R, Sencor^R, Scepter^R, and Preview^R herbicides and applied preplant incorporated. Water or liquid fertilizer may be used as a carrier for Commence E when applied alone, or when tank mixed with the herbicides listed above unless use directions specifically state otherwise.

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IMPORTANT

Failure to observe the application precautions section of this label may result in injury to desirable vegetation

- o Desirable plants including some species of trees, shrubs, flowers, agronomic crops, and fruits and vegetables are sensitive to Commence E herbicide.
- o Foliar contact with spray drift or vapors may cause whitening or yellowing of sensitive plants. Symptoms are generally temporary in nature but may persist on some plants.

SPRAYER CLEANUP

Do not drain or flush equipment on or near desirable trees or other plants, or in areas where their roots may extend or in locations where the chemical may be washed or moved into contact with their roots. Do not contaminate any body of water including irrigation water that may be used on other crops. Carefully follow sprayer clean-up instructions noted below to prevent spray tank residues from damaging other crops.

Sprayer equipment should be thoroughly cleaned to remove all traces of herbicide that might injure other subsequently sprayed crops. The steps below are suggested for the thorough cleaning of spray equipment following applications of Commence E herbicide or tank mixes of Commence E with other labeled products.

- 1) Drain any remaining spray solution from tank and discard in an approved manner (See Note below).
- 2) Thoroughly wash down the inside as well as outside surfaces of equipment while filling the spray tank half full of water. Recycle water solution through the equipment for five minutes and dispose of in an approved manner (see Note below).
- 3) Fill tank with water while adding 1 quart of bleach and 1 pint of detergent for every 25 gallons of water. Operate the pump to circulate the solution through the sprayer system for 15 to 20 minutes and discharge a small amount of the solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
- 4) Start spray system up, recirculate for 15 minutes, then flush the solution out of spray tank through the boom.
 - o When switching from water dilutions to applications utilizing crop oil or liquid fertilizer as a carrier, a small volume of crop oil or liquid fertilizer should be flushed through the tank, pump, hoses, and boom prior to the next use. Dispose of crop oil or liquid fertilizer rinsate in an approved manner (see Note for local, state and Federal guidelines).
- 5) Remove the nozzles, screens, and line filter and wash in a pail of warm, soapy water.
- 6) Flush the system with two tankfuls of water.

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NOTE: Dispose of excess spray mixture and/or rinsates by application and incorporation to cropland as described on this label. If excess spray mixture and/or rinsates cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

GENERAL MIXING CONDITIONS

Commence E Alone: Start with a clean spray tank. Fill sprayer 1/3 to 1/2 full with clean water or liquid fertilizer. Start agitation. Add correct quantity of Commence E, continue agitation and finish filling the tank.

Tank Mixtures: Vigorous, continuous agitation is required for all tank mixes. Sparger pipe agitators generally provide the best agitation in spray tanks. To prevent foaming, avoid stirring or splashing air into the mixture during filling by placing the end of the fill pipe below the surface of the water in the spray tank. Do not allow the mixture to siphon back into the water source.

Mixing Order: Fill the tank 1/4 to 1/3 full with clean water or liquid fertilizer. (See next page for additional liquid fertilizer mixing instructions.) Start the agitation. Add in the following order: dry flowables (DF), wettable powders (WP), aqueous suspensions (AS), flowables (F), and liquids (L) to the water and agitate until the product(s) are completely dispersed. Allow additional mixing and dispersion time when using dry flowable products. Continue agitation and fill tank to 3/4 full, add the Commence E, mix thoroughly. Maintain agitation during filling and through application. If spraying and agitation must be stopped before the tank is empty, the materials may settle to the bottom. In this case, it is important to resuspend all of the material in the bottom of the tank before continuing the spray application. A sparger agitator is particularly useful for this purpose. Sometimes it is more difficult to resuspend settled material than it is to suspend originally.

Read and carefully follow all label instructions for each material added to the tank. Premixing dry and flowable formulations with water (slurrying) and pouring the slurry through a 20 or 35 mesh wetting screen in the top of the tank will help assure good initial dispersion in the tank water. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

If a buildup of material on the walls of the spray tank is observed, wash the tank with soapy water between fillings. Rinse and continue the spraying operation. Clean the tank, lines, and screens thoroughly after use.

As the spray volume per acre decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily to ensure proper calibration and uniform application. Do not apply Commence E when the wind can cause drifting of spray particles which can result in non-uniform application. When using drift reducing agents, follow specific product label instructions for order of addition to spray tank.

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Liquid Fertilizer Mixing Directions: Emulsifiable concentrates, such as Commence E, can be mixed with liquid fertilizers. In all cases, continuous agitation is required to prevent the Commence E from rising to the surface as an oily layer. When necessary (see Liquid Fertilizer Compatibility Test below), a compatibility agent can be used to ensure that the Commence E emulsifies properly (i.e., has a milky appearance rather than an oily layer). The use of compatibility agents is especially important when tank mixing emulsifiable concentrates (EC) with dry flowables (DF), wettable powders (WP), flowables (F), liquids (L), aqueous suspensions (AS), or solutions (S) in liquid fertilizer. If the emulsion is not properly formed, and the EC rises to the surface of the fertilizer as an oil ("oils out"), the oil may combine with the wettable powder, flowable, or suspension to form oily curds (viscous phase) which are difficult to disperse.

Any one of the compatibility agents listed below is helpful in causing emulsifiable concentrates to form non-oiling mixtures with liquid fertilizers. These compatibility agents can be used at rates as low as one and one-half (1 1/2) to two (2) pints per ton of liquid fertilizer and should be mixed well with the fertilizer before adding the emulsifiable concentrate.

Read the label on the compatibility agent and follow the directions.

1. Sponto 168D (Witco Chemicals, Co., Chicago, IL)
2. Compattm (Farm Chemicals, Inc., Aberdeen, NC)
3. Unite (Hopkins Ag Chemical, Madison, WI)
4. T-Mulz 734-2 (Thompson-Hayward Chemical Co., Kansas City, MO)
5. Rigo Compatibility Agent (Rigo Company, Buckner, KY)
6. Amoco Spray Matetm (Amoco Oil Co., Chicago, IL)
7. Kem-Linktm (Universal Coop, Minneapolis, MN)
8. Blendex (Helena Chemical Co., Cayce-West Columbia, SC)
9. Spray-Aide (Miller Chemical and Fertilizer Corp., Hanover, PA)

Each of the above is a phosphate ester type surfactant designed to be used with liquid fertilizers. They usually do not work well as compatibility agents in tank mixtures in water.

Testing for Tank Mix Compatibility in Liquid Fertilizers: Emulsifiable concentrates alone or in tank mixture with dry flowables (DF), wettable powders (WP), liquids (L), flowables (F), aqueous suspensions (AS), or solutions (S), may not combine properly with some fluid fertilizer materials. Small quantities should always be tested before full-scale mixing. This will determine whether a compatibility agent is needed, and which agent does the best job. The nine (9) agents listed above have been thoroughly tested. There are many other surfactants on the market which were not designed for use with liquid fertilizers.

Use the following test to select the correct agent for your mixture:

1. Put one (1) pint of the liquid fertilizer in a quart jar.
2. Add one (1) to four (4) teaspoonful(s) of the DF, WP, L, F, or AS formulation (depending on the recommended rate per acre) to the liquid fertilizer. Close jar and agitate until dispersed evenly in the fertilizer.

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If the materials do not disperse well, it may be necessary to slurry the chemicals in water before adding to the fertilizer.

3. After dispersing the materials (Step 2), add three (3) to four (4) teaspoonfuls of the Commence E to the jar and shake well. Add solution herbicides to the mixture last and agitate. Observe the jar for about 10 minutes. If the materials rise to the surface and form a thick layer (oily curds), which will not disperse when agitated, a compatibility agent is needed. If the mixture is easily dispersed to its original state with slight agitation, no agent is needed, but good agitation must be provided in the fertilizer spray tank.
4. If the need for a compatibility agent is shown in Step 3, using a clean quart jar, start at Step 1 above, add one-half (1/2) teaspoonful of the compatibility agent to the liquid fertilizer, mix well, then repeat Steps 2 and 3.

An effective compatibility agent will cause the mixture to remain uniformly mixed with little or no separating or oil rising to the surface for one-half (1/2) hour or longer. If slight separation does occur, two (2) or three (3) inversions of the jar should give a uniform remix. If oil curds form which will not disperse, more agent or another agent should be tried.

Use a clean jar for each test. The compatible mixture will have a uniform appearance and will be relatively easy to keep mixed with gentle agitation of the jar.

APPLICATION PRECAUTIONS:

Do not apply Commence E within 1,000 feet of the areas listed below:

- Towns and Subdivisions
- Commercial Vegetable Production*
- Commercial Fruit Production
- Commercial Nurseries
- Commercial Greenhouse

*except sweet corn

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APPLICATION PRECAUTIONS:

Plants such as the following may show symptoms of foliar whitening or yellowing if contacted by Commence E. Symptoms are usually temporary in nature but may result in permanent injury if the exposure is excessive. It is recommended that, prior to application, adjacent properties be checked and that spraying within 100 feet of such plants be avoided.

Trees (Deciduous)

- Apple (inc. fruit & ornamental types)
- Ash (Green, White, Mountain)
- Basswood
- Boxelder
- Catalpa
- Cherry (inc. fruit & ornamental types)
- Cottonwood
- Elm
- Ginkgo
- Hackberry
- Mulberry
- Peach
- Pear (inc. fruit & ornamental types)
- Pecan
- Poplar
- Russian olive
- Tree-of-Heaven
- Tulip tree
- Walnut trees
- Willow species

Trees (Evergreen)

- Fir species
- Spruce species

Shrubs & Vines

- Azalea
- Burningbush (Winged Euonymus)
- Grape
- Honeysuckle
- Roses
- Yews

Agronomic Crops

- Alfalfa
- Oats

Vegetables and

Flower plants

Others

- Ferns
- Herbs
- Strawberry
- Raspberry
- Blackberry

Apply Commence E only to surfaces that will be incorporated. Do not apply Commence E to non-field areas including fence row, waterways, ditches, and road sides.

Spray Drift Precautions: Care should be taken to minimize spray drift when applying Commencetm E herbicide.

- o Do not apply when weather conditions favor drift. If wind speeds exceed 10 miles per hour, a drift reducing additive must be used.
- o A minimum spray volume of 15 gallons per acre is recommended with appropriate nozzle types and sizes that produce coarser sprays.
- o The use of agriculturally approved drift reducing additives is recommended for application volumes of 15-40 gallons per acre when spraying in the proximity of desirable plants (see list above).

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- o The use of an agriculturally approved drift reducing additive is required at finished spray volumes of 10-15 gallons per acre.
- o Maintain a uniform spray pattern, but use minimum nozzle pressure and minimum boom height.

GENERAL USE PRECAUTIONS

Application and Environmental Conditions:

Applied according to directions and under normal growing conditions Commence E will not harm the treated crop. Overapplication may result in crop injury or a soil residue. Uneven application or improper soil incorporation of Commence E can result in erratic weed control or crop injury. Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration or drought may weaken crop seedlings and increase the possibility of damage from Commence E. Under these conditions, delayed crop development or reduced yields may result. Application to soils with pH of 6.0 or lower may result in undesirable soil residues and greater potential for injury to rotational crops.

Rotational Crop/Grazing and Feeding Restrictions:

The following rotational crops may be planted nine (9) months after the application of Commence E. Do not rotate to any crops other than those listed below as crop injury may occur.

Corn (Field, Sweet, Pop, Seed)	Potatoes
Cotton	Rice
Cucurbits	Soybeans
Dry Beans	Snap Beans
Peanuts	Sweet Potatoes
Peas	Tobacco
Peppers	Tomatoes (Transplanted)

In those areas where at least twenty (20) inches of irrigation and/or rainfall (total) was used to produce the soybean crop, sorghum should not be planted for twelve (12) months after an application of Commence E. If less than twenty (20) inches of total water was used to produce the soybean crop, do not plant sorghum for eighteen (18) months after an application of Commence E. Cool, wet weather conditions during the early stage of growth may increase the possibility of injury to sorghum.

In areas receiving greater than twenty (20) inches of rainfall per year, moldboard plow at least twelve (12) inches deep before planting sugar beets as a rotational crop. Do not rotate to sugar beets for thirteen (13) months after an application of Commence E if less than twenty (20) inches of water was used to produce the soybean crop.

NOTE: Do not rotate to wheat, oats, barley, rye or alfalfa in the fall of the year of application or in the spring of the following year as crop injury may occur. Cover crops may be planted anytime but stand reduction may occur. Do not graze or harvest these cover crops for food or feed. Do not allow livestock to graze on treated soybean vines or feed treated vines or vine trash to livestock.

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GENERAL APPLICATION INSTRUCTIONS

This Product Must Be Applied As A Preplant Incorporated Treatment.
Do not apply aeriaily or through irrigation equipment.

Ground Applications

Broadcast Application: Apply Commence E alone or in tank mix combinations by ground equipment using a finished spray volume of 10 to 40 gallons of water per acre. NOTE: The use of an agriculturally approved drift reducing additive is required at finished spray volumes of 10 to 15 gallons per acre. Use nozzles suitable for broadcast boom application of herbicides. Coarse sprays are less likely to drift out of the target area than fine sprays. See "APPLICATION PRECAUTIONS" Section for specific recommendations to reduce spray drift.

INCORPORATION DIRECTIONS

General Directions: Use incorporation equipment that thoroughly mixes Commence E into the top 2 to 3 inches of the final seedbed, or erratic weed control and/or crop injury may result. Incorporation equipment such as a disc will mix Commence E approximately half as deep as the equipment is set to operate. For example, a disc set to cut 4 inches deep will incorporate most of the Commence E within the top 2 inches of soil.

Incorporation: Application and immediate incorporation to a depth of 2 to 3 inches is required unless the soil surface is dry. On dry soils, incorporation to a depth of 2 to 3 inches MUST be completed within 8 hours of Commence E herbicide application. Soil must be in good tilth to allow for thorough mixing of the soil. Application to overly moist or wet soils will increase the potential for off-site movement of Commence E herbicide vapors and may result in poor soil incorporation and unsatisfactory weed control.

A second incorporation is necessary, unless specifically stated, this time running the equipment in a different direction from the first. Incorporate the Commence E uniformly into the top 2 to 3 inches of the final seedbed. Commence E may be applied up to 3 weeks prior to planting.

Recommended Equipment

Any recommended incorporation tool may be used alone or in combination with any other recommended tool.

Disc: Set to cut 4 to 6 inches deep and operate at 4 to 6 mph.

Field Cultivator: Set to cut 3 to 4 inches deep and operate at 5 mph or more. A field cultivator is defined as an implement with 3 to 4 rows of sweeps, spaced at intervals of 7 inches or less and staggered so that no soil is left unturned. Chisel points should not be used.

Combination Seedbed Conditions: Set to cut 3 to 4 inches deep and operate at a speed of at least 5 mph. These implements are defined as three or more tillage devices combined and used as a single tool. For example, C- or S-shaped shanks with an effective sweep spacing of 6 to 9 inches (staggered so that no soil is left unturned), followed by a spike-tooth or flexline harrow, followed by a ground-driven reel or basket. Only one incorporation is necessary.

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Rolling Cultivator: Set to cut 2 to 4 inches deep and operate at 6 to 8 mph. Rolling cultivators are adequate for use on coarse and medium textured soils only.

Bed Conditioner (Do-All): Set to cut 2 to 4 inches deep and operate at 4 to 6 mph. The Do-All is adequate for use on coarse and medium textured soils only.

Mulch Treader (other similar disc-type implements): Set to cut 3 to 4 inches deep and operate at 5 to 8 mph.

P.T.O. Driven Equipment (tillers, cultivators, hoes): Adjust to incorporate Commence E into the top 2 to 3 inches of the seedbed with rotors spaced to provide a clean sweep of the soil. Only one incorporation is necessary. P.T.O. driven equipment should not be operated greater than 4 mph.

CULTIVATION AFTER PLANTING

Soil treated with Commence E herbicide may be shallow cultivated without reducing the weed control activity of Commence E. Do not cultivate deeper than the treated soil since this may bring untreated soil to the surface and poor weed control may result.

WEEDS CONTROLLED BY COMMENCE E:

Grass Weeds

Annual bluegrass.	Poa annua	
Barnyardgrass (Watergrass)	Echinochloa sp.	
Brachiaria (Signalgrass)	Brachiaria sp.	
Bromegrass (Cheatgrass)	Bromus tectorum	
(Downy broke)		
Cheat (Chess)	Bromus secalinus	
Crabgrass (Large crabgrass)	Digitaria spp.	
(Smooth crabgrass)		
Foxtail (Bottlegrass)	Setaria spp.	
(Bristlegrass)		
(Giant foxtail)		
(Green foxtail)		
(Foxtail millet)		
(Pigeon grass)		
(Robust foxtail)		
(Yellow foxtail)		
Goosegrass (Silver crabgrass)	Eleusine indica	
(Silvergrass)		
(Wiregrass)		
(Yardgrass)		
Johnsongrass (from seed)	Sorghum halepense	
Junglerice	Echinochloa colonum	
Panicum, fall	Panicum dichotomiflorum	
Panicum, Texas	Panicum texanum	
(Buffalograss)		
(Coloradograss)		
Sandbur (Burgrass)	Cenchrus incertus	
Shattercane*	Sorghum bicolor	

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Spangletop (Lovegrass)
Stinkgrass (Lovegrass)
Woolly cupgrass

Leptochloa filiformis
Eragrostis cilianensis
Eriochloa villosa

Broadleaf Weeds

Carpetweed
Chickweed
Florida pusley
(Florida purslane)
(Mexican clover)
(Pusley)
Goosefoot
Knotweed
Kochia (Fireweed)
(Mexican fireweed)
Lambsquarters
Pigweed (Carelessweed)
(Prostrate pigweed)
(Redroot)
(Rough pigweed)
(Spiny pigweed)
Purslane
Russian thistle
(Tumbleweed)
Stinging nettle (Nettle)
Velvetleaf (Buttonweed)
Venice mallow

Mollugo verticillata
Stellaria media
Richardia scabra

Chenopodium hybridum
Polygonum aviculare
Kochia scoparia

Chenopodium album
Amaranthus spp.

Portulaca oleracea
Salsola kali

Urtica dioica
Abutilon theophrasti

Commence E will provide partial control or suppression of the following weeds:

Jimsonweed
Morningglory, annual
Prickly sida (Teaweed)

Ragweed, common
Smartweed, Pennsylvania
Hibiscus trionium

Control of these weeds may be erratic, ranging from poor to excellent depending upon soil temperature, time of weed germination, depth of weed seed in the soil and the amount and timing of soil moisture. Control may be improved with timely cultivation.

*Two pass incorporation required.

SOIL PREPARATION

Crop residues or Existing Weeds: Ground cover, such as crop residues or existing weeds, can interfere with the incorporation of Commence E into the soil. A manageable level of such ground cover will allow the Commence E to be uniformly incorporated into the top 2 to 3 inches of soil. If the level of the ground cover is such that this cannot be done, till the soil prior to the application of Commence E.

Roughness: The soil surface should be smooth enough to operate the sprayer and incorporation equipment efficiently and at speeds which insure a uniform application and incorporation of Commence E.

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General Soil Conditions: To assure uniform incorporation of Commence E, soil moisture conditions should be such that large clods can be broken up during the incorporation. Application to overly moist or wet soils will increase the potential for off-site movement of Commence E herbicide vapors and may result in poor soil incorporation and unsatisfactory weed control.

SOIL TEXTURE GUIDE

The amount of Commence E you apply will vary with the soil texture and organic matter. A fine textured soil will require more Commence E per acre than a coarse soil. Choose the proper rate for each application based on the following soil texture group. Do not exceed recommended rates.

<u>Soil Texture</u>	<u>Soil Classification</u>
Coarse (light) Soils:	Sand, loamy sand, sandy loam
Medium Soils:	Loam, silty clay loam*, silt loam, silt, sandy clay loam*
Fine Soils:	Clay, clay loam, silty clay loam*, silty clay, sandy clay, sandy clay loam*

*Silty clay loam and sandy clay loam soils are transitional soils and may be classified as either medium or fine textured soils. If silty clay loam or sandy clay loam soils are predominantly sand or silt, they are usually classified as medium textured soils. If they are predominantly clay, they are usually classified as fine textured soils.

SPECIAL PRECAUTION
Off-site movement of spray drift or vapors of Commence E herbicide can cause foliar whitening or yellowing of some plants. Prior to making applications, read and strictly follow all precautions and application instructions on this label.

SOYBEAN APPLICATION RATES

Commence E - Alone
Broadcast Rates Per Acre

Soil Texture	Commence E (Pints)	(Fl Oz)
Coarse	1-3/4 to 2*	28 to 32*
Medium	2 to 2-1/4*	32 to 36*
Fine	2-2/3	43

*Where rate range exists, select lower to higher rates within the ranges noted for lighter to heavier soil types within a textural group.

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Commence E - Tank Mix with Lexone or Sencor herbicides

The Commence E/Lexone or Sencor tank mix controls the annual grasses and broadleaf weeds controlled by Commence E alone plus these additional weeds.

- | | |
|------------------------|-------------------------|
| Jimsonweed | Smartweed, Pennsylvania |
| Prickly Sida (Teaveed) | Spotted Spurge |
| Ragweed, common | Wild mustard |
| Sesbania, hemp | |

Commence E/Lexone or Sencor tank mix also provides partial control or suppression of common cocklebur, annual morningglory and giant ragweed. Control of these weeds may be erratic ranging from poor to excellent depending upon soil temperature, time of weed seed germination, depth of weed seed in the soil and the amount and timing of soil moisture. Control may be improved with timely cultivation.

Broadcast Rates Per Acre

Soil Texture	Commence E (pts/fl oz)	Lexone 4L or Sencor 4F (pts)	Lexone DF or Sencor DF (lbs)
Coarse	1-1/3 pts or 21 fl. oz.	1/3 to 1/2	1/4 to 1/3
Medium	2 pts or 32 fl. oz.	1/2 to 3/4	1/3 to 1/2
Fine	2-2/3 pts or 43 fl. oz.	3/4	1/2

NOTE: Use the higher rate in the rate range for Lexone or Sencor where weed populations are dense or for the control of Wild mustard. Also, for best control of common cocklebur, annual morningglory and giant ragweed, use the higher rate in the rate range for Sencor and Lexone on coarse soils.

Additional Precautions: Do not use Commence E in combination with Lexone or Sencor on soils with less than 0.5% organic matter, on sand, or on loamy sand with less than 2% organic matter, or on soils having a calcareous surface area or a pH of 7.5 or higher as Lexone or Sencor injury to soybeans may occur.

Commence E - Tank Mix with Scepter^R herbicide.

The Commence E/Scepter tank mix controls the annual grasses and broadleaf weeds controlled by Commence E alone plus these additional weeds:

- Eastern Black Nightshade
- Common Cocklebur
- Common Ragweed
- Common Sunflower
- Jimsonweed
- Palmer amaranth
- Pennsylvania smartweed

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Soil Texture	Commence E (pts./fl. oz.)	Scepter (pts.)
Coarse	1 1/3 pts. or 21 fl. oz.	1/3
Medium	2 pts. or 32 fl. oz.	1/3
Fine	2 2/3 pts. or 43 fl. oz.	1/3

Additional Precautions:

Read the Scepter label carefully for cautions and precautions relating to environmental hazards, planting of rotation crops, sequential program uses of Scepter, harvest restrictions following postemergence treatments of Scepter, use of Scepter in conjunction with Classic^R, Canopy^R, or Gemini^R, grazing restrictions and other directions, precautions and limitations before applying Scepter. The use of Scepter is limited to those states listed on the Scepter Label.

Commence E - Tank Mix with Preview herbicide.

The Commence E/Preview tank mix controls the annual grasses and broadleaf weeds controlled by Commence E alone plus these additional weeds:

- Common Cocklebur
- Common Ragweed
- Common Sunflower
- Jimsonweed

Soil Texture	Commence E (pts./fl. oz.)	Preview (oz.)
Coarse	1-1/3 pts. or 21 fl. oz.	6
Medium	2 pts. or 32 fl. oz.	6-7
Fine	2-2/3 pts. or 43 fl. oz.	8

Note: Use the higher rates when heavier weed pressure is anticipated. Large seeded weeds, germinating deep in the soil, such as cocklebur and common sunflower or weeds with subsequent flushes may require a cultivation or an application of postemergence herbicide.

Additional Precautions:

Do not apply Preview to soil with less than 1/2% organic matter.

Use higher rates of Preview on soils with higher organic matter or heavy pressure from large deep germinating weed seeds.

Where Preview is applied, plant soybean seed 1-1/2" to 2" deep on a flat or raised seedbed only, or crop injury may occur.

Soybean injury may occur where Preview is applied if excessive rainfall occurs after application but before soybeans germinate.

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Read the Preview label carefully for cautions and precautions relating to environmental hazards, planting of rotation crops, sprayer contamination and cleanup, soil pH, organic matter and soil texture use restrictions, soybean variety planting restrictions, restrictions where Atrazine or Scepter were used the previous year, restrictions concerning use with organic phosphate pesticides, grazing restrictions and other directions, precautions and limitations.

Commence E - Overlay treatments

Preemergence herbicides approved for use on soybeans may be applied following preplant incorporated treatments of Commence E alone or in tank mix combinations with Lexone, Sencor, Scepter, or Preview for control of additional weed species listed on the preemergence product labels. Read and follow the precautionary statements, directions for use, rates of application and all other information that appears on the product labels. Do not apply Canopy, Lexone, or Sencor herbicides after a preplant incorporated Commence E plus Lexone or Sencor tank mix treatment.

Commence E - Postemergence Treatments

Postemergence herbicides approved for use on soybeans may be applied following preplant incorporated treatments of Commence E alone or in tank mix combinations with Lexone, Sencor, Scepter, or Preview for control of emerged weeds as listed on the postemergence product labels. Read and follow the precautionary statements, directions for use, rates of application and all other information appearing on the product labels.

COMMENCE E HERBICIDE FOLLOWED BY ACIFLUORFEN (BLAZER^R OR TACKLE^R) HERBICIDE

Following a soil incorporated application of Commence E or tank mixture with Commence E, a postemergence application of acifluorfen will control the following emerged broadleaf weeds:

Broadleaf Weeds

- Common Cocklebur
- Hemp sesbania
- Eastern Black nightshade
- Wild mustard
- Purple Moonflower
- Pitted Morningglory

Apply acifluorfen at a rate of 1 pint per acre with .25% crop oil concentrate to actively growing weeds at no more than the 4-leaf growth stage (do not count cotyledonary leaves, but only the fully developed true leaves). This timing generally correlates to soybean growth stages of the first to third trifoliolate leaves.

NOTE: Application of Commence E herbicide generally retards the development rate of weeds which may extend the period where acifluorfen can be effectively applied.

Read and follow all precautions, restrictions, and warnings on all product labels.

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Nozzle	Pressure Range (PSI)	Minimum Flow Rate Within Pressure Range (GPM)	Minimum Nozzle Size
Flat-fan	15-30	0.3	#4*
LP-flat-fan	10-25	0.3	#3
Even flat-fan	15-30	0.3	#4
Flood	10-25	0.3	#2.5*
Whirl-chamber	5-20	0.3	#5
Raindrop	15-40	0.15	#2
Wide angle full cone	15-40	0.3	#5

*Refers to tip number such as 8004 or LF2.5.

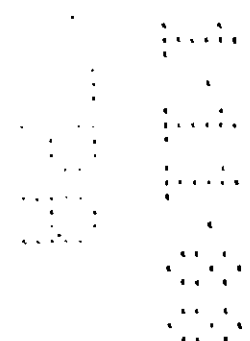
Disclaimer of Warranties

The manufacturer makes no warranties concerning this product or its use, which extend beyond the description on the label. All other warranties, express or implied, including but not limited to, any implied warranties of merchantability and fitness for a particular purpose, are disclaimed. All statements concerning this product apply only when used as directed. This Disclaimer of Warranties does not apply where prohibited by operation of law.

Limitation of Damages

Elanco's liability, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the return of the amount of the purchase price of Commence E and under no circumstances shall Elanco be liable for special, indirect or consequential damages. This Limitation of Damages does not apply where prohibited by operation of law.

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 Canopy^R, Classic^R, Gemini^R, Lexone^R - Trademarks of E.I. du Pont de Nemours and Co., Inc.
 Previewtm - Trademark pending - E.I. duPont de Nemours and Co., Inc.
 Sencor^R - Trademark Of Parent Company Of Fabenfabuken Bayer GmbH, Leverkusen
 Scepter^R - Trademark of American Cyanamid Company
 Blazer^R - Trademark of BASF AG
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