

PM 23 62719-241

10/26

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460 NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</i>	EPA REGISTRATION NO. 62719-241	DATE OF ISSUANCE 30 NOV 1992
	TERM OF ISSUANCE Conditional	
	NAME OF PESTICIDE PRODUCT Legacy	

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

DowElanco
 9002 Purdue Road
 Indianapolis, IN 46268-1189

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

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

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

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

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

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
 - a. Add the phrase "EPA Registration No. 62719-241."
 - b. Under the section for Application with Dry Bulk Fertilizer, the formula given to calculate the amount of product required to impregnate a ton of dry bulk fertilizer mentions "Pints Treflan E.C. Per Acre." The name Legacy should be inserted in place of Treflan.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

20726

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

A stamped copy is enclosed for your records.

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosures

CONCURRENCES

SYMBOL	H7505C						
SURNAME	P. KENNY						
DATE	11/25/92						

NOTE: The trade name "Legacy" will replace "Treflan" wherever it appears in this labeling.



Herbicide

A selective herbicide for the preemergence control of annual grasses and broadleaf weeds.

Active Ingredient:

trifluralin: α,α,α -trifluoro-2,6-dinitro- <i>N,N</i> -dipropyl- <i>p</i> -toluidine	44.5%
Inert Ingredients	55.5%
Total	100.0%

Contains 4 pounds active ingredient per gallon.
 Manufactured using the processes of U.S. Patents 4,120,905 and 4,226,789

EPA Reg. No. 62719-~~0000~~

EPA Est. 1471-IN-2
 Net Contents 2.5 gal

30 NOV 1992

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

WARNING AVISO:

Precaucion al usuario: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

Causes Substantial But Temporary Eye Injury - Harmful if Swallowed, Inhaled Or Absorbed Through The Skin - E.C. May Cause Skin Sensitization Reactions in Certain Individuals

Avoid breathing vapors or spray mist and contact with skin, eyes or clothing. Use eye protection and 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.

First Aid

If In eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention if irritation persists.

If swallowed: Do not induce vomiting. Call a physician or Poison Control Center. If available, administer activated charcoal (6-8 heaping teaspoonfuls) with a large quantity of water. Do not induce vomiting or give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.

If Inhaled: Remove individual to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, give artificial respiration, preferably cardiopulmonary resuscitation assistance, and get medical attention immediately.

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

Note to physician: This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. Aspiration of this product may produce a severe pneumonitis. Stomach lavage with a cuffed endotracheal tube in place and immediate administration of activated charcoal, 6-8 heaping teaspoonfuls with water, should be considered. Treatment is otherwise symptomatic and supportive.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites. Do not contaminate water when disposing of equipment washwaters or rinsate.

Refer to inside of label booklet for additional precautionary information and Directions for Use including STORAGE AND DISPOSAL.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of an emergency endangering life or property involving this product, call collect 517-636-4400.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

Avoid Freezing — Store Above 40°F

NOTE: The trade name "Legacy" will replace "Treflan" wherever it appear in this labeling.

Treflan* E.C.

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Table of Contents	Page
Precautionary Statements.....	1
Hazards to Humans and Domestic Animals.....	1
First Aid.....	1
Environmental Hazards.....	1
Directions for Use.....	3
Storage and Disposal.....	3
General Information.....	3
Approved Crops.....	8
Warranty Disclaimer.....	24
Inherent Risks of Use.....	24
Limitation of Remedies.....	24
40206 E.C. General Information Index:	
General Use Precautions.....	3
Rotation Crop Restrictions.....	3
Soil Texture Guide for Application Rates.....	3
Mixing Directions.....	4
Testing for Compatibility in Liquid Fertilizers.....	4
Application Methods.....	5
Ground Broadcast Application.....	5
Aerial Broadcast Application.....	5
Application with Dry Bulk Fertilizer.....	5
Application by Chemigation.....	5
Application Timing.....	6
Spring Application.....	6
Fall Application.....	6
Preemergence Application Immediately After Planting.....	6
Postemergence and Layby Application.....	6
Incorporation Directions.....	6
Soil Preparation and Incorporation.....	6
Incorporation Equipment.....	6
Weeds Controlled by 40206 E.C.....	7
Special Use Programs.....	8
Approved Crops Index:	
Alfalfa (Established).....	8
Almond (See Tree and Vine Crops).....	22
Apricot (See Tree and Vine Crops).....	22
Asparagus (Established).....	8
Barley (See Small Grains Section).....	16
Beans - Dry Beans.....	9
Beans - Guar and Mungbean.....	9
Beans - Lima Bean and Snap Bean.....	9
Canola (see rapeseed).....	16
Carrot.....	9
Caster Beans.....	9
Celery.....	9
Cherry/Endive.....	10
Cole Crops (Broccoli, Brussels Sprouts, Cabbage and Cauliflower).....	10
Corn (Field Corn Only).....	10
Cotton.....	11
Cucurbits - Cantaloupe, Cucumber and Watermelon.....	12
Durum (See Small Grains Section).....	16
Endive (See Cherry).....	10
Flax (Fall Application Only).....	12

Forage Legumes.....	13
Grain Sorghum (Milo).....	13
Grape (See Tree and Vine Crops).....	22
Grapefruit (See Tree and Vine Crops).....	22
Greens (Turnip greens, Collard, Kale and Mustard Greens).....	13
Hops.....	14
Lemon (See Tree and Vine Crops).....	22
Mustard (Grown for Seed or Processing for Food).....	14
Nectarine (See Tree and Vine Crops).....	22
Olive.....	14
Onions (Grown for Dry Bulbs Only).....	14
Orange (See Tree and Vine Crops).....	22
Peach (See Tree and Vine Crops).....	22
Peanut (Dry and English Peas).....	14
Peas (Southern Peas).....	14
Peanut.....	15
Pecan (See Tree and Vine Crops).....	22
Pepper (Transplant only).....	15
Plum (See Tree and Vine Crops).....	22
Potatoes.....	15
Prune (See Tree and Vine Crops).....	22
Radish.....	15
Rapeseed (Canola).....	16
Safflower.....	16
Small Grains (Barley, Durum and Wheat).....	16
Barley, Spring Seeded - Spring Application Preplant Incorporated for Fescue (Pigeongrass) Control (For Use in Minnesota, North Dakota and South Dakota).....	16
Barley, Spring Seeded - Spring Application Preplant Incorporated for Fescue (Pigeongrass) Control in Barley Used as a Cover Crop or in the Conservation Reserve Program.....	17
Winter Wheat - Preplant Incorporated for Control of Cheatgrass and Other Annual Grasses and Broadleaves (For Use in Idaho, Oregon and Washington).....	17
Winter Wheat - Post Plant Incorporated (For Use in Idaho, Oregon and Washington).....	17
Winter Wheat - Fallow Soil Application Prior to Planting (For Use in Idaho, Oregon and Washington).....	17
Spring Wheat, Durum and Barley - Post Plant Incorporated for Fescue (Pigeongrass) Control.....	18
Soybeans.....	18
Sugar Beets.....	21
Sugarcane.....	21
Sunflower.....	22
Tangalo (See Tree and Vine Crops).....	22
Tangerine (See Tree and Vine Crops).....	22
Tomato.....	22
Tree and Vine Crops - Citrus, Fruit and Nut Crops and Vines: New Plantings of Almond, Apricot, Grapefruit, Lemon, Peach, Pineapple, Orange, Peach, Pecan, Plum, Prune, Tangalo, Tangerine and Walnut.....	22
New Plantings of Vineyards.....	22
Established Plantings of Almond, Apricot, Grapefruit, Lemon, Nectarine, Orange, Peach, Pecan, Plum, Prune, Tangalo, Tangerine, Walnut and Vineyards.....	22
Wheat (See Small Grains section).....	16
Walnut (See Tree and Vine Crops).....	22



Directions for Use

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

Read all directions for use before applying this product.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
Storage: Store in original container only. Avoid freezing. Store above 40°F. If frozen, poor weed control may result. Do not store near heat or flame. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.
Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
Pesticide Container Disposal: 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.
Bulk/Bulk-Bulk Tank Cleaning: Triple rinse (or equivalent) and wash with appropriate cleaners before reusing.

General Information

Warrant E.C. herbicide is a selective herbicide for the preemergence control of annual grasses and broadleaf weeds. Warrant E.C. may be applied in liquid sprays of water or liquid fertilizer, or impregnated on dry bulk fertilizer. To prevent loss of herbicidal activity, Warrant E.C. must be soil incorporated within 24 hours after application. Warrant E.C. may be tank mixed or followed by overlay or postemergence treatments with other herbicides to improve the spectrum of weeds controlled. Warrant E.C. controls weeds by disrupting growth processes during germination. Warrant E.C. does not control established weeds.

General Use Precautions

Applied according to directions and under normal growing conditions, Warrant E.C. will not harm the treated crop. Overapplication may result in crop injury or rotational crop damage from soil residue. Uneven application or improper incorporation of Warrant E.C. can result in erratic weed control or crop injury. Seeding disease, cold weather, deep planting, excessive moisture, high salt concentration or drought may weaken crop seedlings and increase the possibility of damage from Warrant E.C. Under these conditions, delayed crop development or reduced yields may result.

Do not apply Warrant E.C. to soils that are wet or are subject to prolonged periods of flooding as poor weed control may result.

Do not use Warrant E.C. on any crop grown in Pecos county or Reeves county, Texas.

~~Additional restrictions apply to certain crops in certain areas. See the "Approved Crops" section of this label.~~

Chemigation: Warrant E.C. may be applied by chemigation on certain crops. See instructions for chemigation in the "Application Methods" section of this label. Also, see specific instructions for certain crops in the "Approved Crops" section of this label.

Rotation Crop Restrictions

Sugarbeets, Redbeets and Spinach

In Arizona, Colorado, California, Idaho, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming: Sugarbeets, redbeets or spinach should not be planted for 12 months after a spring application

or 14 months after a fall application of Warrant E.C. Plowing to a depth of 12 inches prior to planting these crops will reduce the possibility of crop injury. If land has not been irrigated, these crops should not be planted for 18 months after a spring application or 20 months after a fall application of Warrant E.C.

In all other areas: Sugarbeets, redbeets, and spinach should not be planted for 12 months after a spring application or 14 months after a fall application. Before planting sugarbeets, moldboard plow to a depth of 12 inches to reduce the possibility of crop injury.

Proso Millet, Corn, Sorghum (Milo), Oats and Annual or Perennial Crops or Grass Mixtures

In Arizona, Colorado, California, Idaho, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming: Proso millet, corn, sorghum (milo), oats and annual or perennial grass crops or grass mixtures should not be planted for 12 months after a spring application or 14 months after a fall application of Warrant E.C. to avoid the possibility of crop injury. If land has not been irrigated, these crops should not be planted for 18 months after a spring application or 20 months after a fall application. Moldboard plowing to a depth of 12 inches before planting these crops will reduce the possibility of crop injury.

In Minnesota, North Dakota and South Dakota: Proso millet, sorghum (milo), oats and annual or perennial grass crops or grass mixtures should not be planted for 18 months after a spring application or 21 months after a fall application of Warrant E.C.

In those portions of Kansas, Nebraska, Oklahoma and Texas that receive less than 20 inches of rainfall and irrigation to produce a crop: Do not plant proso millet, sorghum (milo), oats and annual or perennial grass crops or grass mixtures for 18 months after an application of Warrant E.C. In sorghum, cool wet weather conditions during early growth stages may increase the possibility of crop injury. In areas receiving more than 20 inches of rainfall and irrigation, these crops should not be planted for 12 months after a spring application or 14 months after a fall application of Warrant E.C.

Other Crops

Vegetable crops other than those listed on this label for use with pre-plant soil incorporated application of Warrant E.C. should not be planted within 5 months after an application of Warrant E.C.

Soil Texture Guide for Application Rates

Rate recommendations for incorporated treatments of Warrant E.C. are based on "Soil Texture Class" (coarse, medium or fine) and soil organic matter content. A fine textured soil (e.g., clay loam) will require higher application rate than a coarse textured soil (e.g., loamy sand). In the table below, find the "Soil Texture Class" (coarse, medium or fine) corresponding to the "Soil Texture to be Treated". Choose the proper rate for each application based on the "Soil Texture Class" and specific crop recommendations. Do not exceed recommended rates.

Soil Texture Class	Soil Texture to be Treated*
Coarse (Light) Soils	Sand, loamy sand, sandy loam
Medium Soils	Loam, silty clay loam†, silt loam, silt, sandy clay loam†
Fine (Heavy) 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 clay are predominantly clay, they are usually classified as fine textured soils.



Mixing Directions

~~Water~~ E.C. - Alone

~~Water~~ E.C. may be mixed with water or most liquid fertilizer materials. Prior to mixing ~~Water~~ E.C. in liquid fertilizer, refer to the label section entitled "Testing for Compatibility in Liquid Fertilizers" for testing procedures to determine compatibility with the liquid fertilizer product to be used. The combination of ~~Water~~ E.C. with solution and suspension-type fertilizers provides weed and grass control equal to water sprays.

Fill spray tank 1/3 to 1/2 full with clean water or liquid fertilizer. Start agitation. Add correct amount of ~~Water~~ E.C. and continue agitation while filling tank to required spray volume.

Precaution: Do not allow water or spray mixture to back siphon into a water source.

~~Water~~ E.C. In Tank Mix

~~Water~~ E.C. may be tank mixed with other products and applied with water or most liquid fertilizer materials. Prior to mixing tank mixes containing ~~Water~~ E.C. with liquid fertilizer, refer to label section entitled "Testing for Compatibility in Liquid Fertilizers" for testing procedures to determine tank mix compatibility with the liquid fertilizer product to be used.

Vigorous, continuous agitation during mixing, filling and throughout application is required for all tank mixes. Sparger pipe agitators generally provide the most effective agitation in spray tanks. To prevent foaming in the spray tank, avoid stirring or splashing air into the spray mixture. To prevent foaming during filling, keep end of fill pipe below the surface of the liquid in the spray tank.

Mixing Order: Fill the spray tank to 1/4 to 1/3 of the total spray volume required. Start agitation. Add different formulation types in the order indicated below, allowing time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for dry flowable products.

Add different formulation types in the following order: Dry flowables (DF); wettable powders (WP); aqueous suspensions (AS), flowables (F) and liquids (L).

Maintain agitation and fill spray tank to 3/4 of total spray volume. Add ~~Water~~ E.C. and other emulsifiable concentrates (EC) and any solutions (S).

Finish filling the spray tank. Maintain continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled material may be more difficult to resuspend than when originally mixed.

Precautions: Read and carefully follow all label instructions for each material added to the spray tank.
Do not allow water or spray mixture to back siphon into a water source.

Pre-mixing: Dry and flowable formulations may be pre-mixed with water (slurried) and added to the spray tank through a 20-36 mesh screen. This procedure assures good initial dispersion of these products in liquid fertilizer or water.

Line screens in the spray tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

Testing for Compatibility in Liquid Fertilizers

~~Water~~ E.C. alone or in tank mix combination with dry flowables (DF), wettable powders (WP), aqueous suspensions (AS), flowables (F), liquids (L), or solutions (S) may not combine properly with some liquid fertilizer materials. Small quantities should always be tested before full scale mixing. Follow the testing procedure below to determine if a compatibility agent is needed and which one works best in your herbicide/fertilizer mixture. The seven compatibility agents listed at the end of this section have been thoroughly tested. Other surfactants commercially available may or may not be suitable for use with liquid fertilizers.

Testing Procedure

1. Add 1 pint of the liquid fertilizer to a quart jar.
2. Add 1 to 4 teaspoon(s) of the DF, WP, AS, F, or L formulation (depending on mixing rate required) to the liquid fertilizer. Close the jar and agitate until the materials are evenly dispersed in the liquid fertilizer. 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 3 to 4 teaspoons of ~~Water~~ E.C. to the jar and shake well. Add solution herbicides to the mixture last and agitate. Observe the jar for about 10 minutes. If materials rise to the surface and form a thick layer (oily curds) that will not redisperse when agitated, a compatibility agent is needed. If the mixture is easily redispersed with slight agitation, a compatibility agent is not required. Good agitation, however, must be provided to maintain dispersion in the spray tank.
4. If the need for a compatibility agent is demonstrated (step 3) the following procedure is recommended: Using a clean quart jar repeat step one above and add 1/2 teaspoon of the compatibility agent to the liquid fertilizer. Mix well and then repeat steps 2 and 3.

An effective compatibility agent will cause the mixture to remain uniformly dispersed with little or no separation (oil rising to the surface) for one half hour or longer. If slight separation occurs, 2 to 3 inversions of the jar should be sufficient to uniformly redisperse the mixture. If oily curds form and will not redisperse, additional compatibility agent or an alternative compatibility agent should be tried.

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

Compatibility Agents

The phosphate ester-type surfactants listed below are designed for use with liquid fertilizers and can be mixed at rates as low as 1/2 to 2 parts per ton of liquid fertilizer. Add the compatibility agent just before adding pesticides.

1. Sponto 168D (Witco Chemicals Co., Chicago, IL)
2. Compat (Farm Chemicals, Inc., Aberdeen, NC) (Not for use in California)
3. Unite (Hopline Ag Chemical, Madison, WI)
4. T-Mix 734-2 (Thompson-Hayward Chemical Co., Kansas City, MO) (Not for use in California)
5. Rigo Compatibility Agent (Rigo Company, Buckner, KY)
6. Ameco Spray Mate (Ameco Oil Co., Chicago, IL) (Not for use in California)
7. Kam-Link (Universal Coop, Minneapolis, MN)

Compliance with state regulations relating to liquid fertilizer mixing, registration, labeling and application are the responsibility of the individual and/or company offering the fertilizer or chemical mixture for sale.

Precautions: Do not use the compatibility agents listed above for tank mixes in plain water.
Read the compatibility agent label for use directions and precautions before use.

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Application Methods

General

As spray volume decreases, the importance of accurate calibration and uniform application increases. Check calibration and uniformity of spray application daily. To avoid spray drift, do not apply when winds are gusting or when wind speed is greater than 15 mph.

Ground Broadcast Application

Apply ~~the~~ E.C. in 5 to 40 gallons of liquid carrier per acre (broadcast basis), using any properly calibrated, low pressure herbicide sprayer that will apply the spray uniformly. The carrier may be water or liquid fertilizer as specified for the crop to be treated in the "Approved Crops" section of this label. For band application, adjust herbicide rate and spray volume in proportion to the band width and row width treated.

Aerial Broadcast Application

Apply ~~the~~ E.C. in 5 to 10 gallons of water per acre. Adjust pump pressure, nozzle arrangements, speed and application height to provide uniform application to the soil surface. Use swath markers or flags to assure proper swath width interval.

Application with Dry Bulk Fertilizer

Dry bulk fertilizers impregnated or coated with ~~the~~ E.C. may be applied as a preplant incorporated treatment on approved crops. All label recommendations for ~~the~~ E.C. regarding application rates, incorporation directions, special instructions and precautions should be followed. Read and follow all label instructions below concerning use of ~~the~~ E.C. with dry bulk fertilizer. Properly applied dry bulk fertilizers impregnated with ~~the~~ E.C. provides weed and grass control equal to water sprays.

Use the following formula to calculate the amount of ~~the~~ E.C. required to impregnate a ton of dry bulk fertilizer.

Pints the E.C. Per Acre	X	1000	Quarts the E.C. Per Ton of Fertilizer
		Pounds Fertilizer Per Acre	=

Limitations: Apply a minimum of 200 lb/acre of dry fertilizer impregnated with ~~the~~ E.C. at the recommended broadcast rate per acre. Any commonly used dry fertilizer can be used for impregnation of ~~the~~ E.C. except coated ammonium nitrate and pure limestone. These materials will not absorb the herbicide. Blends containing mixtures of these materials can be impregnated.

Impregnation: Use any closed drum, belt, ribbon or other commonly used dry bulk fertilizer blender. Nozzles used to apply ~~the~~ E.C. to dry bulk fertilizer should be placed to provide uniform spray coverage.

Application and Incorporation: Spread the fertilizer/chemical mixture with properly calibrated application equipment. Be certain the material is applied uniformly to the soil surface. ~~the~~ E.C. should be incorporated 2 times when impregnated on dry bulk fertilizer. The first incorporation should occur within 24 hours after application. The second incorporation should be delayed 3 to 5 days after the first and be completed prior to planting.

Compliance with State Regulations: Compliance with state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company offering the fertilizer or chemical mixture for sale.

Application by Chemigation

~~the~~ E.C. may be applied through properly equipped chemigation systems for weed control in certain crops as specified in "Approved Crops" section of this label. Read and follow all label instructions outlined below concerning chemigation before applying ~~the~~ E.C. by this method.

~~Do not apply the product to any irrigation system.~~
(Removed references
to TRAFAL AND IRRIGATION
SYSTEMS)

General Chemigation Directions: Apply this product only through continuously moving center pivot, lateral move, or end tow sprinkler irrigation systems equipped for chemigation. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration you should contact state extension specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Sprinkler Chemigation Directions:

The following directions must be followed for all recommended sprinkler irrigation systems (center pivot, lateral move or end tow):

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back-flow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point that pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. ~~the~~ E.C. should be injected continuously throughout the irrigation period. The chemigation metering pump should be checked periodically during application to insure proper operation.
9. The injection metering pump must be calibrated as specified by the manufacturer.
10. During chemigation, maintain agitation in supply tank at all times.
11. ~~the~~ E.C. may cause some staining of plastic hoses and fittings.
12. Apply ~~the~~ E.C. in sprinkler irrigation equal to 1/2 to 1 inch of water.

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Chemigation System Calibration:

Sample calculation for use of **Warrant E.C.** in a chemigation system:

- Assume, in this example, 133 acres are to be covered by a chemigation treatment.
- Product required, assuming 1.5 pints per acre is 199.5 pints (133 acres X 1.5 pt/acre = 199.5 pt = 25 gallons)
- Add 25 gallons of product directly to the injection supply tank.
- Adjust the injection system to deliver 25 gallons during the time required to apply 1 inch of water to 133 acres.

If the irrigation system requires 20 hours to apply 1 inch of water to 133 acres, the injection rate is 1.25 gal/hr and is calculated as follows:

$$\bullet 25 \text{ gal} \div 20 \text{ hr} = 1.25 \text{ gal/hr} \quad 1.25 \text{ gal/hr} = 160 \text{ fl oz/hr}$$

Proper calibration requires the injection pump to be adjusted to deliver 2.7 fl oz/min and is calculated as follows:

$$\bullet 160 \text{ fl oz/hr} \div 60 \text{ min/hr} = 2.7 \text{ fl oz per min.}$$

Chemigation Mixing Directions:

Undiluted **Warrant E.C.:** When used alone, the injection of undiluted **Warrant E.C.** is recommended in chemigation systems. For undiluted use, the metering pump, supply tank, and any associated equipment must be thoroughly clean and dry before **Warrant E.C.** is added to the system for injection. When injecting undiluted **Warrant E.C.**, maintain continuous agitation in the supply tank.

Diluted **Warrant E.C.:** **Warrant E.C.** may be diluted if required to achieve accurate calibration for existing equipment. Partially fill the injection supply tank with a volume of water equal to the amount of **Warrant E.C.** required (Do not add water to **Warrant E.C.**). Start agitation. Add the required amount of **Warrant E.C.** to water in the supply tank and continue mixing while filling the tank to the final volume required by the injection pump calibration. When injecting diluted **Warrant E.C.**, maintain continuous agitation in supply tank.

Application Timing

Spring Application

Apply and incorporate **Warrant E.C.** any time after January 1 when soil can be worked and is in a condition which allows thorough mixing to insure uniform incorporation. See "Approved Crops" section for application timing recommendations for specific crops.

Fall Application

Fall application can be used for all crops for which **Warrant E.C.** is recommended as a preplant incorporated treatment. Refer to "Approved Crops" section for any crop specific fall application instructions.

In the states of California, North Dakota, South Dakota and Minnesota, apply and incorporate **Warrant E.C.** any time between September 1 and December 31. In all other states, fall apply **Warrant E.C.** between October 15 and December 31.

Ground may be bedded up over winter. On bedded ground, reduce beds to desired height before planting, by moving some treated soil from beds into furrows. Where soil is left flat over winter, care should be taken not to turn up untreated soil during spring bedding operations. Destroy established weeds during seedbed preparation. Weeds established in furrows as a result of exposing untreated soil should be destroyed before planting. Fall application of **Warrant E.C.** is not recommended on fields which remain wet or are subject to periods of flooding.

Preemergence Application Immediately After Planting

Apply and incorporate **Warrant E.C.** immediately after planting and prior to crop germination. Adjust incorporation equipment so as to not disturb planted seed. Refer to the "Approved Crops" section of this label for crop specific instructions.

Postemergence and Layby Application

Apply and incorporate **Warrant E.C.** at the recommended rate to the established crop at or before the last cultivation. Required preharvest intervals for treatments with **Warrant E.C.** for certain crops are specified in the "Approved Crops" section of this label. Crop cover may prevent uniform soil coverage from over-the-top sprays. To avoid this problem, use drop nozzles or directed sprays to achieve uniform soil coverage.

Incorporation Directions

Soil Preparation and Incorporation

Ground cover, such as crop residues or existing weeds, can interfere with uniform soil incorporation of **Warrant E.C.** A manageable level of ground cover will allow uniform incorporation into the top 2 to 3 inches of soil. Ground cover and crop residues, if excessive, should be reduced by appropriate soil tillage prior to application.

Break up clods using tillage equipment prior to application of **Warrant E.C.** **Warrant E.C.** must be incorporated within 24 hours after application. With most equipment and methods of application, a second incorporation is required and may occur any time before planting. The second incorporation should be in a different direction, and to avoid bringing untreated soil to the surface, should not be deeper than the first.

General Soil Conditions: The soil surface should be smooth enough to allow for uniform application and efficient incorporation of **Warrant E.C.** Apply when soil moisture is sufficient to allow the breakup of large clods and uniform mixing during the incorporation process. Soil compaction and/or non-uniform incorporation may occur if soil is excessively moist.

Incorporation in Bedded Culture: In bedded culture **Warrant E.C.** should be incorporated to a depth of 2 to 3 inches in the final seedbed.

Application Prior to Bedding: Apply **Warrant E.C.** and incorporate one time with recommended equipment. The bedding operation serves as the second incorporation. Do not expose untreated soil during post-bedding operations such as planting since removal of treated soil during planting can allow weed germination and establishment in the drill row.

Application After Bedding: Knock off beds to planting height before applying **Warrant E.C.** Apply and incorporate **Warrant E.C.** with recommended equipment that will conform to the shape of the bed. Do not expose untreated soil.

Cultivation After Planting: Treated crops may be shallowly cultivated without reducing the weed control activity of **Warrant E.C.** Limit depth of cultivation to the zone of treated soil (2 to 3 inches) to avoid moving untreated soil to the surface. Exposure of untreated soil may cause loss of weed control.

Incorporation Equipment

Use incorporation equipment capable of mixing **Warrant E.C.** uniformly into the top 2 to 3 inches of the final seedbed. Use of inappropriate equipment or improper use of recommended equipment may result in erratic weed control and/or crop injury. Incorporation equipment such as a tandem disc will mix **Warrant E.C.** approximately half as deep as the equipment is set to operate. For example, a disc set to cut four inches deep will mix most of the **Warrant E.C.** within the top 2 inches of soil. Any recommended incorporation implement may be used alone or in combination with any other recommended implement. Two incorporation passes are required unless otherwise specified.

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E.C.

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

Field Cultivator: Set equipment to cut 3 to 4 inches deep and operate at a minimum of 5 mph. 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 Conditioners: These implements are defined as three or more tillage devices combined to operate as a single tillage unit. For example, 2 to 3 rows of field cultivator 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. Combination implements should be set to cut 3 to 4 inches deep and operated at a minimum of 6 mph. ~~When~~ E.C. can be incorporated with one pass when using a combination seedbed conditioner. Two incorporations are required under conditions which prevent optimum soil mixing such as excessive trash, roughness, high clay content or soil moisture.

Rolling Cultivator: Set equipment to cut 2 to 4 inches deep and operate at 6 to 8 mph. Generally, rolling cultivators are adequate for use only on coarse and medium soils. In sugarcane the rolling cultivator may be used on fine textured soils.

Bed Conditioner (Do-All): Set equipment to cut 2 to 4 inches deep and operate at 4 to 6 mph. One incorporation pass is adequate in bedded culture, while two incorporation passes are required in flat planted culture. The do-all should be used only on coarse and medium textured soils.

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

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

Other Equipment: Other implements including the flexible line-tooth harrow (Flexline or Metro), are recommended, but only for certain uses defined in the "Approved Crops" section of this label.

Weeds Controlled by ~~Proflar~~ E.C.

Grass Weeds

Common name

annual bluegrass
barnyardgrass
(watergrass)
brachiaria
(signalgrass)
bromegrass
(cheatgrass)
(downy brome)
cheat
(cheas)
crabgrass
(large crabgrass)
(smooth crabgrass)
foxtail
(bottlegrass)
(bristlegreen)
(plant foxtail)
(green foxtail)
(foxtail millet)
(pigeongrass)
(robust foxtail)
(yellow foxtail)
guineagrass
(See special instructions for control in sugarcane in the "Approved Crops" section.)

Scientific Name

Poa annua
Echinochloa crus-galli
Brachiaria spp.
Bromus tectorum
Bromus secalinus
Digitaria spp.
Setaria spp.
Panicum maximum

itchgrass

(raouigrass)

(See special instructions for control in sugarcane in the "Approved Crops" section.)

johnsongrass (from seed)

(rhizome - see special instructions for control in cotton, soybeans, fruit and nut crops and vineyards in the "Approved Crops" section.)

jungeria

oats, wild†

panicum

(fall panicum)

(spreading panicgrass - see special instructions for control in cotton and soybeans in the "Approved Crops" section.)

ryegrass, Italian

(annual ryegrass)

Texas panicum

(buffalograss)

(Coloredograss)

red rice

(See special instructions for suppression or partial control in soybeans in the "Approved Crops" section.)

sandbur

(briargrass)

sprangletop

stinkgrass

(lovegrass)

statercane

(wild cane)

(See special instructions for control in soybeans in the "Approved Crops" section.)

woolly cupgrass

†When applied as a preplant incorporated treatment, ~~the~~ E.C. controls wild oats that germinate in the treated zone. Wild oat control is not claimed for incorporated uses in small grains.

Rottboellia exaltata

Sorghum halepense

Echinochloa colonum

Avena fatua

Panicum dichotomiflorum

Lolium multiflorum

Panicum texanum

Oryza sativa

Cenchrus incarnatus

Leptochloa filiformis

Eragrostis ciliaris

Sorghum bicolor

Eriochloa villosa

Broadleaf Weeds

Common Name

carpetweed
chickweed
field bindweed
(See special instructions for control in fruit and nut crops and vineyards in the "Approved Crops" section.)
goosefoot
henbit
knotweed
kochia
(fireweed)
(Mexican fireweed)
lambsquarters, common
pigweed
(carelessweed)
(prostrate pigweed)
(redroot)
(rough pigweed)
(spiny pigweed)
(See special instructions for control in soybeans in "Approved Crops" section.)
puncturevine
(Western U.S. only)
(caltrop)
(gooseweed)
purslane, common
pusley, Florida
(Florida purslane)
(Mexican clover)
(pusley)
Russian thistle
(tumbleweed)
stinging nettle
(nettle)

Scientific Name

Mollugo verticillata
Stellaria media
Convolvulus arvensis
Chenopodium hybridum
Lamium amplexicaule
Polygonum aviculare
Kochia scoparia
Chenopodium album
Amaranthus spp.
Tribulus terrestris
Portulaca oleracea
Richtia scabra
Salsola verzei
Urtica dioica

Special Use Programs

Alfalfa E.C. is approved for the following special use programs. Refer to "Approved Crops" section of this label for details on soil preparation, use rates, application, soil incorporation, and precautions for each type of program.

Cotton

- Fall Panicum Control
- Pigweed and Seeding Johnsongrass Control
- Additional Weed and Grass Control (Gulf Coast Counties of Texas)
- Rhizome Johnsongrass Control

Soybean

- Fall Panicum Control
- Pigweed and Seeding Johnsongrass Control
- Additional Weed and Grass Control (Gulf Coast Counties of Texas)
- Rhizome Johnsongrass Control
- Charcoal Soil in Arkansas, Louisiana and Mississippi
- Red Rice Control in Arkansas, Louisiana, Mississippi and Texas
- Wild Cane (shattercane) Control
- Alfalfa E.C. plus Sencor or Lactone for Rhizome Johnsongrass Control

Fruit and Nut Crops and Vineyards

- Rhizome Johnsongrass Control
- Field Bindweed Control

Approved Crops

ALFALFA - ESTABLISHED

Mechanically Incorporated

Apply Alfalfa E.C. with ground or aerial equipment and mechanically incorporate prior to weed emergence to control weeds listed in the "General Information" section of this label. Use mechanical incorporation equipment that will insure thorough soil mixing with minimal damage to crop stand.

Soil Texture	Alfalfa E.C. (pints)
Coarse	1.5
Medium	2.0
Fine	2.0

Surface Applications (Chemigation or Water Incorporated)

Alfalfa E.C. may be surface applied for annual grass control in established alfalfa by chemigation, or ground or aerial broadcast application equipment.

Chemigation

Refer to "Application by Chemigation" section in the "General Information" section of this label for use directions for chemigation.

Surface Applications Activated by Rainfall or Irrigation

Broadcast surface applications of Alfalfa E.C. to established alfalfa may be activated by rainfall, sprinkler, flood or furrow irrigation. Rainfall or a single overhead sprinkler irrigation of 0.5 acre inch or more is required to activate Alfalfa E.C. If activated by furrow irrigation, care should be taken to thoroughly wet beds between furrows. If rainfall or irrigation has not occurred within 3 days after application, Alfalfa E.C. may be mechanically incorporated. If mechanically incorporated, use equipment that will insure thorough soil mixing with minimum damage to the established alfalfa.

Application Timing and Weeds Controlled

Applications to established alfalfa for annual grass control can be made during dormancy or semi-dormancy, or during the growing season immediately after a cutting. Because Alfalfa E.C. does not control established weeds, application must be made prior to the expected time of weed germination. Bromegrass and cheat begin to germinate in the fall with the onset of cooler weather. To control these weeds, apply Alfalfa E.C. immediately after a cutting between August 1 and October 1, but prior to weed germination. When fall applied, Alfalfa E.C. controls bromegrass and cheat in addition to other labeled weeds that germinate after application.

The following weeds are controlled when Alfalfa E.C. is applied by chemigation or surface applied and incorporated by rainfall or irrigation:

barnyardgrass	creabgrass
bromegrass	cupgrass
(cheatgrass)	foxtail
(downy brome)	jungrass
(cheat)	sandbur
(cheat)	wildbarley
canarygrass	

Broadcast Application Rates/Acre:

Soil Texture	Alfalfa E.C. (pints)
All Soil Textures	4.0

Precautions:

- Do not cut or graze alfalfa within 21 days after application of Alfalfa E.C.
- Apply no more than 4 pt of Alfalfa E.C. during any growing season. In the growing season following application of 4 pt of Alfalfa E.C. to alfalfa, plant only those crops for which Alfalfa E.C. is registered as a preplant treatment or crop injury may occur.

Tank Mix Combinations

Other products registered for use on established alfalfa may be ground broadcast in tank mix combination with Alfalfa E.C. or applied as sequential treatments following application of Alfalfa E.C. Tank mixes containing Alfalfa E.C. must be applied when alfalfa is dormant or semi-dormant, or immediately after a cutting.

Precaution: Refer to the tank mix product label for application rates, weeds controlled, additional use directions, precautions and limitations before use.

ASPARAGUS - ESTABLISHED

Apply Alfalfa E.C. to established asparagus as a single or split application. Alfalfa E.C. will suppress volunteer seeding asparagus and field bindweed when applied as directed. Follow recommended soil preparation, application and incorporation procedures for Alfalfa E.C.

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Application Timing

Make applications to dormant asparagus in winter or early spring after mature ferns have been removed. Do not apply after new spears begin to emerge. Apply post-harvest applications immediately after harvest in late spring or early summer just before ferns are allowed to develop.

Broadcast Application Rates/Acre:		
Wetlan E.C.		
Soil Texture	Split Application	Single Application
	Before and After Harvest	Before or After Harvest
	(pints)	(pints)
Coarse	1.0 + 1.0	2.0
Medium	1.5 + 1.5	3.0
Fine	2.0 + 2.0	4.0

Do not apply more than 2.0 pt/acre on coarse soils, 3.0 pt/acre on medium soils or 4 pt/acre on fine soils during any calendar year.

BEANS - DRY BEANS

Wetlan E.C. - Alone

Apply and incorporate Wetlan E.C. in the spring before planting or in the fall. See instructions for fall application of Wetlan E.C. under the heading "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:	
Soil Texture	Wetlan E.C.
	(pints)
Coarse	1.0
Medium	1.25-1.5
Fine	1.5-2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Wetlan E.C. plus Eptam Tank Mix

Wetlan E.C. may be tank mixed with Eptam 7E and applied as a pre-plant incorporated treatment to control additional weeds. Use application rates recommended for dry beans "Wetlan E.C. Alone", above. Refer to the label for Eptam for application rates, additional use directions, precautions and limitations before use.

BEANS - GUAR AND MUNG BEAN

Apply Wetlan E.C. as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Wetlan E.C.
	(pints)
Coarse	1.0
Medium	1.5
Fine	1.5

BEANS - LIMA BEAN AND SNAP BEAN

Apply Wetlan E.C. as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Wetlan E.C.
	(pints)
Coarse	1.0
Medium	1.0
Fine	1.5

CARROT

Apply Wetlan E.C. as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Wetlan E.C.
	(pints)
Coarse	1.0
Medium	1.25-1.5
Fine	1.5-2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

CASTOR BEAN

Apply Wetlan E.C. as soil incorporated treatment, before or immediately after planting. If applied and incorporated after planting, set equipment so as to not disturb the seed.

Broadcast Application Rates/Acre:	
Soil Texture	Wetlan E.C.
	(pints)
Coarse	1.0
Medium	1.25-1.5
Fine	1.5-2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

CELERY

Apply Wetlan E.C. as a soil incorporated treatment. Wetlan E.C. may be applied to direct seeded or transplant celery before planting, at planting or immediately after planting.

Broadcast Application Rates/Acre:	
Soil Texture	Wetlan E.C.
	(pints)
Coarse	1.0
Medium	1.25-1.5
Fine	1.5-2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

CHICORY / ENDIVE

Apply ~~Warrant~~ E.C. as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C. (pints)
Coarse	1.0
Medium	1.5
Fine	2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 pints

COLE CROPS - BROCCOLI, BRUSSELS SPROUTS, CABBAGE AND CAULIFLOWER

Direct Seeded Cole Crops

Apply ~~Warrant~~ E.C. as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C. (pints)
Coarse	1.0
Medium	1.0
Fine	1.5

- Soils with 2-5% organic matter - 1.5 pints

Precaution: Direct seeded cole crops exhibit margin of tolerance to higher than recommended rates of ~~Warrant~~ E.C. Stunting or reduced stands may occur.

Transplanted Cole Crops

Apply and incorporate ~~Warrant~~ E.C. prior to transplanting.

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C. (pints)
Coarse	1.0
Medium	1.25-1.5
Fine	1.5-2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

CORN - FIELD CORN ONLY

Postemergence Incorporated Treatment

Apply ~~Warrant~~ E.C. as a postemergence treatment following cultivation or use of a preemergence herbicide. ~~Warrant~~ E.C. does not control established weeds. Apply when crop is well established (2 true leaf stage or taller). Apply as an over-the-top spray or as a directed spray using drop nozzles if foliage prevents uniform coverage of the soil surface.

Incorporation Directions

Applications of ~~Warrant~~ E.C. must be mechanically incorporated within 24 hours. Mechanical incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. The sweep-type cultivator should have 3 to 5 sweeps per row middle and be operated at a speed that will provide vigorous soil mixing. 5 middle sweeps so as to avoid exposing untreated soil. Adjust incorporation equipment so as to avoid mechanical injury to the crop.

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C. (pints)
Coarse	0.75-1.0†
Medium	1.0-1.5
Fine	1.5-2.0

† Apply 1.0 to 1.5 pints/acre on coarse soils in Alabama, Florida, Georgia, North Carolina, South Carolina and Virginia to control fall panicum and Texas panicum.

- Apply lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Precautions:

- Do not apply to sweet corn or corn grown for seed.
- Do not apply ~~Warrant~~ E.C. to corn as a preplant or preemergence treatment or crop injury may occur.
- Where corn is planted in a furrow, ~~Warrant~~ E.C. should be applied only after a cultivation to move soil into the row.

Chemigation

~~Warrant~~ E.C. may be applied through properly equipped chemigation systems for weed control in field corn. Refer to "Application by Chemigation" section in the "General Information" section of this label for chemigation use directions. Do not apply ~~Warrant~~ E.C. through any type of irrigation system unless these directions are carefully followed.

Application Timing

Apply ~~Warrant~~ E.C. in 0.5 to 1 acre inch of sprinkler irrigation when field corn is at the 2 true leaf stage of growth or taller. Apply ~~Warrant~~ E.C. prior to weed emergence or after existing weeds have been controlled with herbicides or cultivation. ~~Warrant~~ E.C. does not control established weeds.

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C. (pints)
Coarse	1.5-2.0
Medium	1.5-2.0
Fine	Do not apply Warrant E.C. by chemigation to fine textured soils

Precautions:

- Do not apply ~~Warrant~~ E.C. by chemigation to sweet corn or corn grown for seed.
- Where corn is planted in a furrow, ~~Warrant~~ E.C. should be applied only after a cultivation to move soil into the row.
- Do not apply ~~Warrant~~ E.C. to corn as a preplant or preemergence treatment as crop injury may occur.

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Treflan E.C. plus Atrazine Tank Mix

Treflan E.C. may be applied in tank mix combination with atrazine plus an emulsifiable oil or oil concentrate when corn is at the 2-leaf stage of growth or taller and weeds are no more than 1 1/2 inches in height. A period of 24 to 48 hours is required to obtain atrazine postemergence activity after which the preemergence activity of the Treflan E.C. plus atrazine combination may be activated by 0.5 inch or more of rainfall or overhead sprinkler irrigation or mechanical incorporation. Use the application rates and incorporation methods for Treflan E.C. recommended under "Postemergence Incorporated Treatment" in the "Corn - Field Corn Only" section of this label.

Precautions:

- Where corn is planted in a furrow, Treflan E.C. should be applied only after a cultivation to move soil into the row.
- Refer to the product label for atrazine for application rates, additional use directions, precautions and limitations before use.

COTTON

Treflan E.C. - Alone

Apply Treflan E.C. to cotton as a soil incorporated treatment. Treflan E.C. may be applied before planting, immediately after planting, to the established crop up to layby, or in the fall. Refer to instructions for fall application under "Application Timing" in the "General Information" section of this label. Follow recommended soil preparation, application and incorporation procedures in the "General Information" section of this label. When incorporating Treflan E.C. after planting, but prior to crop emergence, set equipment so as to not disturb planted seed. Postemergence application of Treflan E.C. may be made from the 4 true leaf stage of growth up to layby, but not less than 90 days before harvest. Apply postemergence treatments as a directed spray beneath cotton plants to soil between the rows. Use the same application rates for preplant, preemergence and layby treatments.

Broadcast Application Rates/Acre:			
Soil Texture	Treflan E.C.		
	Spring Application†	Fall Application	
		Eastern U.S.††	Western U.S.†††
Coarse	1.0	2.0	1.5
Medium	1.25-1.5	2.0	2.0
Fine	1.5-2.0	2.5	2.5

† Spring Application:

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 to 2.5 pints
- Use lower rate in rate range for areas receiving less than 20 inches of total annual rainfall and irrigation.

†† Fall application rates for eastern cotton producing areas, including: Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri (Bootheel), North Carolina, New Mexico, Oklahoma, South Carolina, Tennessee and Texas.

††† Fall application rates for western cotton producing areas, including: Arizona, California and Nevada.

For cotton grown in states other than those listed above, fall apply at broadcast rates recommended for areas receiving greater than 20 inches average annual rainfall.

Precautions: Cotton should be planted after early season adverse weather conditions have passed, especially when using higher rate programs. Cool, wet weather early in the growth cycle causes additional stress to the cotton plant. This may result in reduced stand, delayed maturity and reduced yields.

Layby Treatment

Apply and incorporate Treflan E.C. in established cotton from the 4 true leaf stage of growth up to layby, but not less than 90 days before harvest. Apply uniformly to the soil surface, using drop nozzles if necessary. Use the application rates recommended above for preplant incorporated treatments. Soil incorporate using one pass of a sweep-type cultivator or properly adjusted rolling cultivator. Operate cultivation equipment at speeds sufficient to provide vigorous soil mixing and exercise care to avoid mechanical injury to the crop.

Chemigation

Treflan E.C. may be applied through properly equipped chemigation systems for weed control in cotton. Refer to "Application by Chemigation" in the "General Information" section of this label for use directions for chemigation. Do not apply Treflan E.C. through any type of irrigation system unless these directions are carefully followed.

Apply Treflan E.C. in overhead sprinkler irrigation equal to 1/2 to 1 inch of water. Planting and application should occur as soon as possible after the last tillage operation. Treflan E.C. must be applied within 2 days after planting prior to crop emergence. Treflan E.C. does not control established weeds. Soil incorporation is not required when Treflan E.C. is applied through chemigation systems.

Broadcast Application Rates/Acre: See rates for cotton Treflan E.C. - Alone" above. Apply at the maximum recommended rate for each soil texture class to be treated.

Cultivation: Soil treated by chemigation with Treflan E.C. may be shallow cultivated without reducing weed control activity.

Special Use Programs

Fall Panicum Control

Apply and incorporate a broadcast rate of 2.0 pt/acre on both coarse and medium soils.

Pinweed and Seedling Johnsongrass Control

Apply Treflan E.C. as a preplant incorporated treatment.

Broadcast Application Rates/Acre: In Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, southeastern Missouri (Bootheel), North Carolina, South Carolina, Tennessee and southern Virginia, apply Treflan E.C. at the following broadcast rates:

Soil Texture	Treflan E.C. (pints)
Coarse	1.0-1.5
Medium	1.5-2.0
Fine	2.0

(Exception: Louisiana, where 3.0 pt/acre can be applied to fine soils).

- Use higher rates in the rate range where high weed populations are anticipated.

Additional Weed and Grass Control (Gulf Coast Counties of Texas)

Apply Treflan E.C. as a preplant incorporated treatment up to 2 weeks before planting.

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Broadcast Application Rates/Acre: For cotton grown in Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller and Wharton counties of the Texas Gulf Coast, apply Wetlan E.C. at the following broadcast rates:

Soil Texture	Wetlan E.C. (pints)
Coarse	1.5
Medium	2.0
Fine	3.0

Rhizome Johnsongrass Control (For use in all cotton producing states except Arizona and California.)

Rhizome johnsongrass control with Wetlan E.C. requires double application rates for 2 consecutive years. Commercially acceptable control cannot be obtained with only one year of double rate use of Wetlan E.C. Carefully follow all special use directions.

Soil Preparation: Satisfactory results are dependent upon proper preparation of soil prior to application. Chisel plow to bring rhizomes to the soil surface. Disc twice before application to chop rhizomes into small (2 to 3 inch) pieces and destroy any recently emerged johnsongrass plants.

Broadcast Application Rates/Acre:	
Soil Texture	Wetlan E.C. (pints)
Coarse	2.0
Medium	3.0
Fine	4.0

Spring Application: Apply Wetlan E.C. any time before planting in the spring for 2 years in succession.

Fall Application: Apply Wetlan E.C. between October 15 and December 31 for 2 years in succession.

Incorporation: Deep incorporation with a tandem disc is essential for good results. Set disc to operate 4 to 6 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary and the second should be in a different direction than the first.

Cultivation: Some johnsongrass plants will not be controlled. Timely cultivation during the crop season is necessary to remove escaped plants and maintain commercially acceptable control.

Precautions:

In the season following a double rate treatment, plant only rice or those crops for which Wetlan E.C. can be applied as a preplant treatment or crop injury may occur.

Tank Mixes, Overlay and Postemergence Treatments

Wetlan E.C. in Tank Mix

Wetlan E.C. may be tank mixed with Caprot, Cotaran, Zerial and other products registered for use on cotton as a preplant incorporated treatment to control additional weeds. Use the application rates for Wetlan E.C. recommended for cotton Wetlan E.C. - Alone.

Precaution: Refer to the tank mix product label for additional weeds controlled, application rates, additional use directions, precautions and limitations before use.

Wetlan E.C. - Preplant Incorporated Followed by Overlay Treatments

Apply Wetlan E.C. as a preplant incorporated treatment. Additional weeds tolerant to Wetlan E.C. may be controlled using overlay pre-emergence applications of Cotaran, Karmax, Zerial or other products registered for use on cotton, unless use following Wetlan E.C. is specifically prohibited by the manufacturer. Consult the manufacturer's labels for additional weeds controlled, use directions, precautions and limitations before use.

Wetlan E.C. - Preplant Incorporated Followed by Postemergence Treatments

Apply Wetlan E.C. as a preplant incorporated treatment. Additional weeds tolerant to Wetlan E.C. may be controlled using postemergence treatments of products registered for use on cotton, unless use following Wetlan E.C. is specifically prohibited by the manufacturer. Consult the manufacturer's labels for additional weeds controlled, use directions, precautions and limitations before use.

CUCURBITS - CANTALOUPE, CUCUMBER AND WATERMELON

Apply Wetlan E.C. after emergence when plants have reached the 3 to 4 true leaf stage of growth. Apply as a directed spray to soil between the rows. Avoid foliage contact as slight crop injury may occur. Set incorporation equipment to move treated soil around the base of plants.

Broadcast Application Rates/Acre:	
Soil Texture	Wetlan E.C. (pints)
Coarse	1.0
Medium	1.25-1.5
Fine	1.5-2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

FLAX (Fall Application Only)

Apply and incorporate Wetlan E.C. in the fall for weed control in spring seeded flax. Incorporate once within 24 hours after application. The second incorporation may be performed in the spring prior to planting.

Special Instructions for Flax

1. Incorporation operations or other tillage practices performed in the spring prior to seeding should be relatively shallow so as to maintain a firm seedbed, and the seedbed should be packed prior to seeding.
2. Seeding should be done with a press drill or hoe drill. Seed into moist seedbed and plant no more than 1.5 inches deep.
3. Delay seeding until soil has warmed sufficiently to allow rapid germination and establishment.
4. Refer to "General Use Precautions" in the "General Information" section of this label for information on growing conditions that can lead to crop injury or yield reduction.



15 of 20
 Wetland EC

Broadcast Application Rates/Acre:	
Soil Texture	Wetland E.C.
	(pints)
Coarse	1.0
Medium	1.5
Fine	2.0

FORAGE LEGUMES

Forage Legumes Used as Cover Crops or In the Acreage Conservation Reserve Program

Apply Wetland E.C. as a pre-plant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Wetland E.C.
	(pints)
Coarse	1.0
Medium	1.0-1.5
Fine	1.5

- Use the lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Precautions:

- If used under the Acreage Conservation Reserve Program, follow the most severe grazing restrictions imposed by the USDA Conservation Use Program. Consult the local ASCS committee or other state agency to determine the period of the USDA grazing restriction.
- Some crop stand reduction may occur with this use; however, reduced weed competition will allow establishment of a quality stand.

GRAIN SORGHUM (MILO)

Postemergence Incorporated Treatment

Apply Wetland E.C. as a directed or over-the-top spray when grain sorghum is 8 inches tall or taller. Drop nozzles should be used if foliage prevents uniform soil coverage.

Soil Preparation: Cultivate before application of Wetland E.C. to remove established weeds and to cover the base of grain sorghum plants with soil. Cultivation equipment should be set to add approximately 1 inch of soil to the base of sorghum plants.

Incorporation Directions: Applications of Wetland E.C. must be mechanically incorporated within 24 hours after application. Mechanical incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. Sweep-type cultivators should have 3 to 5 sweeps per row middle and be operated at a speed that will provide vigorous soil mixing. Set middle sweeps so as to avoid exposing untreated soil. Adjust incorporation equipment so as to avoid mechanical injury to the crop.

Broadcast Application Rates/Acre:	
Soil Texture	Wetland E.C.
	(pints)
Coarse	0.75 - 1.0
Medium	1.0-1.5
Fine	1.5 - 2.0

- Apply Wetland E.C. at lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

Chemigation

Wetland E.C. may be applied through properly equipped chemigation systems for weed control in grain sorghum 8 inches tall or taller. Refer to "Application by Chemigation" section in the "General Information" section of this label for chemigation use directions. Do not apply Wetland E.C. through any irrigation system unless these directions are carefully followed.

Soil Preparation: Cultivate before application of Wetland E.C. to destroy existing weeds and cover the base of the grain sorghum plants with soil. Cultivation equipment should be set to add approximately 1 inch of soil to the base of sorghum plants.

Application Timing: Apply Wetland E.C. to grain sorghum in 0.5 to 1 acre inch of overhead sprinkler irrigation as soon as possible after a cultivation when grain sorghum is at least 8 inches tall. Wetland E.C. must be applied prior to weed emergence or after existing weeds are controlled. Wetland E.C. does not control established weeds.

Broadcast Application Rates/Acre:	
Soil Texture	Wetland E.C.
	(pints)
Coarse	0.75-1.0
Medium	1.0-1.5
Fine	Do not apply Wetland E.C. by chemigation to fine textured soils

Precautions:

- Do not apply Wetland E.C. to grain sorghum as a pre-plant or pre-emergence treatment or crop injury will occur.
- Over-application may result in injury to grain sorghum.

Wetland E.C. plus Atrazine Tank Mix

Wetland E.C. may be applied in tank mix combination with atrazine plus an emulsifiable oil or oil concentrate when grain sorghum is 8 inches tall or taller and weeds are no more than 1 1/2 inches in height. A period of 24 to 48 hours is required to obtain postemergence activity of atrazine after which the pre-emergence activity of the Wetland E.C. plus atrazine combination may be activated by 0.5 inch or more of sprinkler irrigation or mechanical incorporation. Use application rates and incorporation methods for Wetland E.C. recommended under "Postemergence Incorporated Treatment" in the "Grain Sorghum (Milo)" section of this label.

Precaution:

- Where grain sorghum is planted in a furrow, Wetland E.C. should be applied only after a cultivation to move soil into the row.
- Refer to the product label for atrazine for application rates, additional use directions, precautions and limitations before use.

GREENS - TURNIP GREENS GROWN FOR PROCESSING: COLLARD, KALE AND MUSTARD GREENS

Apply Wetland E.C. to greens as a pre-plant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Wetland E.C.
	(pints)
Coarse	1.0
Medium	1.5
Fine	1.5

- Seals with 2-10% organic matter - 1.5 pints

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~~Treat E.C.~~

HOPS

Apply and incorporate ~~Treat~~ E.C. to established crop during dormancy. Use incorporation equipment that will insure thorough soil mixing with minimal damage to crop stand.

Broadcast Application Rates/Acre:	
Soil Texture	Treat E.C. (pints)
Coarse	1.0
Medium	1.25 - 1.5
Fine	1.5

- Soils with 2-10% organic matter - 1.5 pints

MUSTARD - GROWN FOR SEED OR PROCESSED FOR FOOD

Apply ~~Treat~~ E.C. to mustard as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Treat E.C. (pints)
Coarse	1.0
Medium	1.5
Fine	1.5

- Soils with 2-10% organic matter - 1.5 pints

OKRA

Apply ~~Treat~~ E.C. as a soil incorporated treatment, before or immediately after planting. If applied and incorporated after planting, set equipment so as to not disturb the seed.

Broadcast Application Rates/Acre:	
Soil Texture	Treat E.C. (pints)
Coarse	1.0
Medium	1.25 - 1.5
Fine	1.5 - 2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 pint
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

ONIONS - GROWN FOR DRY BULBS ONLY

Apply ~~Treat~~ E.C. to established onions as a soil incorporated treatment. Apply as a directed spray to soil between onion rows. Spray shields should be used to avoid injury to foliage or exposed bulbs. Do not apply within 60 days of harvest.

Broadcast Application Rates/Acre:	
Soil Texture	Treat E.C. (pints)
Coarse	0.75 - 1.0
Medium	1.0 - 1.25

- Use lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation or where light weed pressure is anticipated

Incorporation

Incorporate with 1 pass of a sweep-type or rolling cultivator. Set equipment to cut 2 to 4 inches deep and operate at 6 to 8 mph. Avoid covering exposed onion bulbs with treated soil during incorporation as crop injury may occur. Avoid injury to crop roots during incorporation.

Precautions: When applied according to directions under normal growing conditions, ~~Treat~~ E.C. will not adversely affect onions. Diseases, improper incorporation depth, excessive moisture, high salt concentration or drought may weaken the crop and increase the possibility of damage from ~~Treat~~ E.C. Under these conditions, delayed crop development or reduced yields may result.

PEAS - DRY PEA AND ENGLISH PEAS

~~Treat~~ E.C. - Alone

Apply and incorporate ~~Treat~~ E.C. in the spring before planting or in the fall. Refer to instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:		
Soil Texture	Treat E.C.	
	Spring Application (pints)	Fall Application † (pints)
Coarse	1.0	1.0
Medium	1.0	1.25-1.5
Fine	1.5	1.5

- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.
- † ~~Treat~~ E.C. may be fall applied to Dry and English Peas in the states of Idaho, Oregon and Washington.

~~Treat~~ E.C. plus Far-Go Tank Mix (For Use in Idaho, Oregon and Washington)

~~Treat~~ E.C. may be tank mixed with Far-Go and applied as a preplant soil incorporated treatment to control wild oats in dry and English peas. Use application rates recommended for dry and English peas, "~~Treat~~ E.C. - Alone", above. Refer to the label for Far-Go for application rates, additional use directions, precautions and limitations before use.

PEAS - SOUTHERN PEAS

Apply as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Treat E.C. (pints)
Coarse	1.0
Medium	1.25 - 1.5
Fine	1.5 - 2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- All soils with 5-10% organic matter - 2.0 pints
- Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

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PEANUTS

Treflan E.C. - Alone

Spanish Peanuts, Florunner and Florigiant Varieties (For Use in Texas, Oklahoma and New Mexico)

Apply and incorporate Treflan E.C. before planting, at planting or immediately after planting. When incorporating after planting, adjust equipment so as to not disturb planted seed.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan E.C. (pints)
Coarse	1.0
Medium	1.5

Treflan E.C. plus Vernam Tank Mix

Spanish Peanuts, Florunner and Florigiant Varieties (For Use in Texas, Oklahoma and New Mexico)

Treflan E.C. may be tank mixed with Vernam and applied as a preplant incorporated treatment to control additional weeds. Use application rate recommended for peanuts Treflan E.C. - Alone above. Refer to the label for Vernam for application rates, additional use directions, cautions and limitations before use.

PEPPER (Transplant Only)

Apply and incorporate Treflan E.C. prior to transplanting.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan E.C. (pints)
Coarse	1.0
Medium	1.25 - 1.5
Fine	1.5 - 2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

POTATOES (Not for Use in the State of Maine)

Treflan E.C. - Alone

Apply and incorporate Treflan E.C. after planting prior to crop emergence, immediately following drag off, or after potato plants have fully emerged.

Incorporation: Set incorporation equipment so that the bed and furrow are uniformly covered with a layer of treated soil. If the layer of treated soil is not uniform and the herbicide is concentrated over the bed, potato emergence may be retarded and stem brittleness can occur. When applying and incorporating Treflan E.C. after potato plants have fully emerged, do not completely cover the plants with treated soil. Likewise, do not completely cover plants during subsequent cultivations. Be careful that incorporation equipment does not damage potato seed pieces or emerging sprouts.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan E.C. (pints)
Coarse	1.0
Medium	1.25 - 1.5
Fine	1.5 - 2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Chemigation

Treflan E.C. may be applied through properly equipped chemigation systems for weed control in potatoes. Refer to "Application by Chemigation" section in the "General Information" sector of this label. Do not apply Treflan E.C. through any type of irrigation system unless these directions are carefully followed.

Apply Treflan E.C. to potatoes in 0.5 to 1 acre inch of overhead sprinkler irrigation after planting, before emergence, or immediately following drag off or after the potato plants have fully emerged. Existing weeds must be destroyed by tillage or cultivation prior to application of Treflan E.C. Treflan E.C. does not control established weeds. Incorporation is not necessary when Treflan E.C. is applied by chemigation.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan E.C. (pints)
Coarse	1.0
Medium	1.5
Fine	Do not apply Treflan E.C. by chemigation to fine textured soils.

Precautions:

- If cultivation is required after treatment with Treflan E.C., avoid completely covering potato plants with treated soil.
- Erratic weed control may result if cultivation exposes untreated soil between rows.

Treflan E.C. In Tank Mix

Treflan E.C. plus Eptam Tank Mix - Post Plant Preemergence Treatment

Treflan E.C. may be tank mixed with Eptam and applied as a soil incorporated treatment to control additional weeds. Apply after planting, but before crop emergence. In areas where potatoes are normally dragged off, apply and incorporate up to or immediately following drag off. Use application rate recommended for potatoes Treflan E.C. - Alone. Refer to the label for Eptam for application rates, additional use directions, precautions and limitations before use.

RADISH

Apply Treflan E.C. as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan E.C. (pints)
Coarse	1.0
Medium	1.5
Fine	1.5

RAPESEED (CANOLA)

Apply and incorporate **Warrant E.C.** in the spring before planting or in fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C. (pints)
Coarse	1.0
Medium	1.5
Fine	2.0

Precaution: Do not apply **Warrant E.C.** to rapeseed (canola) grown in the state of Alaska.

SAFFLOWER

Apply and incorporate **Warrant E.C.** in the spring before planting or in fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:		
Soil Texture	Warrant E.C.	
	Spring Application (pints)	Fall Application ¹ (pints)
Coarse	1.0	1.5
Medium	1.25-1.5	2.0
Fine	1.5-2.0	2.5

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.5 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.
- **Warrant E.C.** may be fall applied to safflower in the states of Arizona, California, Idaho, Nevada, Oregon, Utah, Washington and Wyoming.

SMALL GRAINS - BARLEY, DURUM AND WHEAT

Special Precautions for Use of **Warrant E.C.** on Small Grains

Carefully follow directions for use of **Warrant E.C.** on small grains to minimize potential crop stress. Under certain conditions, delayed crop emergence and/or stand reduction may occur when **Warrant E.C.** is applied to barley, durum or wheat. The combined effect of certain cultural practices and unfavorable soil or environmental conditions may cause excessive crop seedling stress resulting in retarded crop growth, stand reduction and possibly reduced yield. For best results, observe the following cultural practices or precautions:

Use tillage methods that provide a uniformly firm seedbed and time tillage operations to conserve moisture.

Irrigate prior to planting or after germination and emergence. Moisture received between planting and emergence may cause crusting, especially on loose, friable seedbeds.

Do not exceed recommended application rates for **Warrant E.C.** This is particularly important on coarse textured or low organic matter soils.

Carefully follow incorporation directions. When applying preplant incorporated treatments, operate equipment at recommended depth and speed to place **Warrant E.C.** into the upper 1 to 1.5 inches of soil. If applied after planting, set equipment so as to not disturb planted seed.

Set drills to place seed at the depth specified in use directions. A planting depth greater than 2.5 inches for spring wheat or durum will result in increased seedling stress and decreased emergence.

Use only high quality seed where **Warrant E.C.** is to be applied (avoid use of small seed with low starch reserves).

If seed treatments are used, apply at the correct rate and uniformly across all seeds. Misapplication may result in reduced germination and/or seedling vigor.

Avoid use of seed varieties known to have poor seedling (emergence) vigor.

Do not fall apply **Warrant E.C.** in combination with any other preplant incorporated herbicide.

Soil characteristics and environmental conditions which may contribute to crop seedling stress that may be accentuated by use of **Warrant E.C.** include:

Soil related: High salinity, eroded knolls/hilltops, loose dry soils and compaction.

Weather related: Cold and/or wet soils, excessively hot soils, excessive moisture, drought, and soil crusting from heavy rainfall.

Note: Do not apply **Warrant E.C.** on small grains where a dirtroad-line herbicide such as **Warrant E.C.** was applied at a rate recommended for row crops (oil seeds) during the previous growing season.

Application Directions for Small Grains

Barley, Spring Seeded — Spring Application Preplant Incorporated for Foxtail (Pigeongrass) Control (For Use in Minnesota, North Dakota and South Dakota)

Apply **Warrant E.C.** as a preplant incorporated treatment prior to planting spring seeded barley. **Warrant E.C.** may be applied to ground that has a manageable trash level or has been tilled or pre-tiled. The first incorporation is required within 24 hours after application. The second incorporation is required prior to planting to destroy emerged weeds and to insure even distribution of **Warrant E.C.** in the soil surface.

Broadcast Application Rates/Acre: Apply at a rate of 1.0 pint per acre for all soil textures regardless of organic matter content.

Incorporation: Recommended incorporation tools include the chisel plow (first incorporation pass only), tandem disc and field cultivator. Refer to "Incorporation Equipment" in "General Information" section of this label for details on operation of incorporation equipment.

Planting Directions: Barley should be seeded approximately 2 inches deep.

Precautions:

- Carefully read and follow "Special Precautions for Use of **Warrant E.C.** in Small Grains" before application of **Warrant E.C.**
- While use of this weed control practice may result in a stand reduction, slight stand reductions do not normally affect yield.

Barley, Spring Seeded — Spring Application Preplant Incorporated for Foxtail (Pigeongrass) Control in Barley Used as a Cover Crop or in the Conservation Reserve Program

Apply **Warrant E.C.** as a preplant incorporated treatment prior to planting spring seeded barley on land enrolled in acreage conservation reserve programs. Follow recommended soil preparation, application and incorporation procedures for **Warrant E.C.**

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C.
	(pints)
Coarse	1.0
Medium	1.5
Fine	1.5

Planting Directions: Barley should be seeded approximately 2 inches deep.

Precautions: Use of this weed control practice may result in slight stand reduction. Follow the most severe grazing restrictions imposed either by the label for **Warrant E.C.** or by the USDA Acreage Conservation Reserve Program, whichever is longest. Consult the local ASCS office or other state agency to determine the period of USDA grazing restriction.

Winter Wheat — Preplant Incorporated for Control of Cheatgrass and Other Annual Grasses and Broadleaves (For Use in Idaho, Oregon and Washington)

Apply **Warrant E.C.** as a preplant incorporated treatment for control of downy brome (cheatgrass), annual ryegrass, annual bluegrass, pacific meadow foxtail (blackgrass), henbit and fiddleneck (tarweed). The growth, development and yield of winter wheat will not be adversely affected, provided the seed is placed below the zone of soil treated with **Warrant E.C.** **Warrant E.C.** may be applied for up to 3 weeks before planting.

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C.
	(pints)
Coarse	1.5
Medium	1.5
Fine	2.0

Incorporation Directions: Incorporate **Warrant E.C.** with a flexible line-tooth harrow (Flexline or Melroe) set to cut 1 to 2 inches deep and operate at 3 to 6 mph. Incorporate once within 24 hours after application and a second time in a different direction from the first prior to planting. Do not till the soil with a disc after **Warrant E.C.** has been incorporated with a flexible line harrow.

Planting Directions: Use only a deep furrow or semi-deep furrow drill that will place the seed below the zone of soil treated with **Warrant E.C.**

Precautions:

- Carefully read and follow "Special Precautions for Use of **Warrant E.C.** in Small Grains" before application of **Warrant E.C.**
- Wheat planted in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

Winter Wheat — Post Plant Incorporated Treatment (For Use in Idaho, Oregon and Washington)

Apply and incorporate **Warrant E.C.** after planting, but before emergence, to control the following weeds susceptible to **Warrant E.C.** in winter wheat: annual ryegrass, annual bluegrass, downy brome (cheatgrass), pacific meadow foxtail (blackgrass), fiddleneck (tarweed) and henbit.

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C.
	(pints)
Coarse	1.0 - 1.5
Medium	1.5

Planting Directions: Plant wheat 2 to 3 inches deep in a well-bled seedbed. Do not use a deep or semi-deep furrow drill.

Incorporation Directions: Incorporate **Warrant E.C.** using 2 passes with a flex-line or spike-tooth harrow operated at least 5 mph. The second incorporation pass should be in a different direction than the first. Set equipment to cut 1 to 1 1/2 inches deep and avoid disturbing seed. Application and first incorporation should be done in the same operation if possible. Both incorporations must be done within 24 hours.

Precautions:

- Carefully read and follow "Special Precautions for Use of **Warrant E.C.** in Small Grains" before application of **Warrant E.C.**
- Wheat seed in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.
- If less than 20 inches of rainfall plus irrigation was received between planting and harvest, refer to rotation crop restrictions before planting sorghum or oats.

Winter Wheat — Fallow Soil Application Prior to Planting (For Use in Idaho, Oregon and Washington)

Warrant E.C. may be applied and shallowly incorporated into fallow soil up to 4 months before planting wheat to control cheatgrass and certain annual grasses and broadleaf weeds. Apply **Warrant E.C.** any time from May to September prior to fall planting of winter wheat. Wheat growth, development and yield will not be adversely affected so long as the seed is placed below the zone of soil treated with **Warrant E.C.**

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C.
	(pints)
Coarse	1.5
Medium	1.5
Fine	2.0

Incorporation Directions: Incorporate **Warrant E.C.** with a flexible line-tooth harrow (Flexline or Melroe) set to cut 1 to 2 inches deep and operate at 3 to 6 mph. Incorporate once within 24 hours after application and a second time in a different direction from the first prior to planting. Do not till the soil with a disc after **Warrant E.C.** has been incorporated with a flexible line harrow.

Planting Directions: Use only a deep furrow or semi-deep furrow drill that will place the seed below the zone of soil treated with **Warrant E.C.**

Precautions:

- Carefully read and follow "Special Precautions for Use of **Warrant E.C.** in Small Grains" before application of **Warrant E.C.**
- Wheat planted in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

WARRANT E.C. GRAN

Spring Wheat, Durum and Barley — Postplant Incorporated for Foxtail (Pigeongrass) Control

Apply and incorporate **Trifluralin E.C.** after planting, but before emergence, to control foxtail (pigeongrass) in spring wheat, durum and barley. **Trifluralin E.C.** may be tank mixed with **Far-Go** to control wild oats. Refer to the label for **Far-Go** for application rates, additional use directions, precautions and limitations before use.

Broadcast Application Rates/Acre:	
Soil Texture	Trifluralin E.C. (pints)
Coarse	1.0
Medium	1.0
Fine	1.5

Planting Directions: Plant wheat 2 to 3 inches deep in a well-tilled seedbed.

Incorporation Directions: Incorporate **Trifluralin E.C.** using 2 passes with a fan-tine or demand harrow operated at least 5 mph. The second incorporation pass should be in a different direction than the first. Set equipment to cut 1 to 1.5 inches deep and avoid disturbing seed. Application and first incorporation should be done in the same operation if possible. Both incorporations must be done within 24 hours.

Precautions:

- Carefully read and follow "Special Precautions for Use of **Trifluralin E.C.** in Small Grains" before application of **Trifluralin E.C.**
- Wheat seed in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

SOYBEANS

Trifluralin E.C. - Alone

Apply **Trifluralin E.C.** as a preplant soil incorporated treatment. **Trifluralin E.C.** may also be applied in the fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:		
Soil Texture	Trifluralin E.C.	
	Spring Application (pints)	Fall Application [†] (pints)
Coarse	1.0	2.0
Medium	1.5	2.0
Fine	2.0	2.5

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 1 to 2.5 pints

[†]Fall Application Rates for States Including: Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri (Southwest), North Carolina, Oklahoma, South Carolina, Tennessee and Texas.

For soybeans grown in states other than those listed above, fall apply **Trifluralin E.C.** at broadcast rates recommended for normal preplant incorporated treatment.

Precautions: Soybeans should be planted after early season adverse weather conditions have passed, especially when using higher rate

programs. Cool, wet weather early in the growth cycle causes additional stress on the soybean plant which may result in reduced stand, delayed maturity and reduced yield.

Chemigation

Trifluralin E.C. may be applied through properly equipped chemigation systems for weed control in soybeans. Refer to "Application by Chemigation" in the "General Information" section of this label for use directions for chemigation. Do not apply **Trifluralin E.C.** through any irrigation system unless these directions are carefully followed.

Apply **Trifluralin E.C.** in sprinkler irrigation equal to 0.5 to 1 inch of water. Planting and application should occur as soon as possible after the last tillage operation. **Trifluralin E.C.** must be applied within 2 days after planting and prior to crop emergence. **Trifluralin E.C.** does not control established weeds. Soil incorporation is not required when **Trifluralin E.C.** is applied through chemigation systems.

Broadcast Application Rates/Acre:	
Soil Texture	Trifluralin E.C. (pints)
Coarse	1.5 - 2.0
Medium	1.5 - 2.0
Fine	2.0 - 2.5

- Soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 to 2.5 pints

Cultivation: Soil treated by chemigation with **Trifluralin E.C.** may be shallow cultivated without reducing weed control activity.

Special Use Programs

Fall Pesticide Control

Apply **Trifluralin E.C.** as a preplant incorporated treatment at a broadcast rate of 2.0 pints/acre on coarse and medium soils.

Pigweed and Sealing Johnsongrass Control

Apply **Trifluralin E.C.** as a preplant incorporated treatment.

Broadcast Application Rates/Acre: In Alabama, Arkansas, Florida, Georgia, Kansas, Louisiana, Mississippi, Missouri, Nebraska, North Carolina, Oklahoma, South Carolina, Tennessee, and southern Virginia, apply **Trifluralin E.C.** at the following broadcast rates:

Soil Texture	Trifluralin E.C. (pints)
Coarse	1.0 - 1.5
Medium	1.5 - 2.0
Fine	2.0 - 2.5

(exception: Louisiana, 3.0 pints/acre on fine soils)

Additional Weed and Grass Control (Gulf Coast Counties of Texas)

Apply **Trifluralin E.C.** as a preplant incorporated treatment up to 2 weeks before planting.

Broadcast Application Rates/Acre: For soybeans grown in Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Walker and Wharton counties of the Texas Gulf Coast, apply **Trifluralin E.C.** at the following broadcast rates:

SOYBEANS (CONT.)

Soil Texture	Wetland E.C.
	(pints)
Coarse	1.5
Medium	2.0
Fine	3.0

Rhizogloss (Reedgrass) Suppression

Apply Wetland E.C. as a preplant incorporated treatment or at layby.

Layby Treatment: Cultivate to remove existing weeds and treat when soybeans are well established (10 inches tall). Apply as a directed spray to the soil surface and incorporate using a rolling cultivator set to cut 2-4 inches deep or sweep-type cultivator with 3 to 5 sweeps per row middle operated 2 to 3 inches deep. Set incorporation equipment to throw treated soil to the row.

Broadcast Application Rates/Acre:		
Soil Texture	Wetland E.C.	
	Preplant Incorporated (pints)	Layby Application (pints)
Medium	3.0	1.0
Fine	3.0	2.0

Charcoal Soils in Arkansas, Louisiana and Mississippi

Newly cleared land often contains high organic matter (5-10%) and charcoal from burning debris. Charcoal and organic matter tends to bind Wetland E.C. and reduce weed control activity. Under these conditions, higher rates of Wetland E.C. are necessary for weed control. Increased rates, however, can cause crop injury if charcoal or organic matter is not present to bind some of the Wetland E.C. In the burn row a high level of charcoal is usually present. Consequently, poor weed control may result, even if an increased rate of Wetland E.C. is used. Follow recommended application and incorporation procedures for Wetland E.C.

Broadcast Application Rates/Acre:	
Soil Texture	Wetland E.C.
	(pints)
Coarse	1.5 - 2.5
Medium	2.5
Fine	2.0

Red Rice Control in Arkansas, Louisiana, Mississippi, and Texas Only

Suppression or partial control of red rice can be obtained from a 2-year treatment program which consists of a double rate application the first year followed by application in the second year at normal rates indicated for soil texture, organic matter or charcoal content. Apply and incorporate Wetland E.C. in the spring before planting. Follow recommended soil preparation and incorporation procedures for Wetland E.C.

Broadcast Application Rates/Acre:		
Soil Texture	Wetland E.C.	
	Application Year 1 (pints)	Application Year 2 (pints)
Coarse	2.0	1.0
Medium	3.0	1.5
Fine	4.0	2.0
Coarse Soils with 2-6% organic matter	3.0	1.5
Soils with 5-10% organic matter	4.0	2.0-2.5

In Arkansas, Louisiana and Mississippi, if a combination of high soil organic matter (5-10%) and charcoal are present, apply Wetland E.C. at the following broadcast rates:

Soil Texture	Wetland E.C.
	(pints)
Coarse	1.5 - 2.5
Medium	2.5
Fine	3.0

For more information on charcoal soils see discussion in preceding section.

Prevention: Crop Rotation: The recommendation for red rice control in soybeans is a 2-year program. In the first year following a double rate application, plant only soybeans. During the second year, after applying Wetland E.C. at the normal rate indicated for soil texture and charcoal level, plant only those crops for which Wetland E.C. is tolerated as a preplant treatment or crop injury may result. Rice may be planted during the third year following application of normal use rates in year two.

Rhizome Johnsongrass Control in Eastern United States and the State of Texas

Rhizome johnsongrass control with Wetland E.C. requires double rate application for two consecutive years. Commercially acceptable control cannot be obtained with only one year of double rate use of Wetland E.C. Carefully follow the special use directions which follow.

Soil Preparation: Satisfactory results are dependent upon proper soil preparation prior to application. Chisel plow to bring rhizomes to the soil surface. Disc twice before application to chop rhizomes into small (2 to 3 inch) pieces and destroy any recently emerged johnsongrass plants.

Broadcast Application Rates/Acre:	
Soil Texture	Wetland E.C.
	(pints)
Coarse	2.0
Medium	3.0
Fine	4.0

- Coarse soils with 2-5% organic matter - 3.0 pints
- Soils with 5-10% organic matter - 4.0 pints

Spring Application: Apply Wetland E.C. any time before planting in the spring for two consecutive years.

Fall Application: Apply Wetland E.C. after October 15 for two consecutive years.

Split Application: Apply Wetland E.C. at the broadcast rates indicated in the following table both spring and fall for 2 consecutive years.

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SOYBEANS (CONT.)

Soil Texture	Wetland E.C. Spring + Fall (pints)
Coarse	1.0 + 1.0
Medium	1.5 + 1.5
Fine	2.0 + 2.0
Coarse Soils with 2-5% organic matter	1.5 + 1.5
Soils with 5-10% organic matter	2.0 + 2.0

Incorporation: Deep incorporation with a tandem disc is essential for good results. Set disc to operate 4 to 6 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary and the second should be in a different direction than the first.

Cultivation: Some johnsongrass plants will not be controlled. Timely cultivation during the crop season is necessary to remove escaped plants and maintain commercially acceptable control.

Precautions: In the season following a double rate treatment, plant only rice and those crops to which Wetland E.C. can be applied as a pre-plant treatment or crop injury may result.

Rhizome Johnsongrass Control with Wetland E.C. plus Sencor or Loxone Tank Mix

Rhizome johnsongrass control with Wetland E.C. plus Sencor or Loxone requires application for two consecutive years. Apply Wetland E.C. plus Sencor or Loxone as a preplant incorporated treatment up to two weeks before planting. This tank mix controls weeds susceptible to Wetland E.C. plus additional weeds listed on the label for Sencor or Loxone.

Application Rates: See rate recommendations above for "Rhizome Johnsongrass Control in Eastern United States and the State of Texas". Use application rates for soybeans in the label for Sencor or Loxone.

Precaution: Refer to the label for Sencor or Loxone for application rates, additional use directions, precautions and limitations prior to applying Wetland E.C. plus Sencor or Loxone tank mix. Carefully follow all use precautions on the labels for Sencor or Loxone.

Wild Cane (Shattercane) Control

Follow recommended soil preparation and application procedures for Wetland E.C. Wild cane (shattercane) can germinate throughout the growing season and from greater soil depth than most other weed seeds. Commercially acceptable control of wild cane can be obtained by using increased rates of Wetland E.C.

Broadcast Application Rates/Acre:	
Soil Texture	Wetland E.C. (pints)
Coarse	1.0
Medium	2.0
Fine	2.5

Incorporation: Deep incorporation with a tandem disc is essential for good wild cane control. Incorporate Wetland E.C. thoroughly with a disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary with the second in a different direction than the first.

Cultivation: Cultivation during the growing season will improve shattercane control.

Tank Mix, Overlay and Postemergence Recommendations

Wetland E.C. in Tank Mix

Wetland E.C. may be tank mixed with Sencor, Loxone, Canopy, Lasso, Dual, Preview or Vernam and applied as a preplant soil incorporated treatment to control additional weeds in soybeans. Refer to the tank mix product label for weeds controlled, application rates, additional use directions, precautions and limitations before use.

Wetland E.C. plus Command (Reduced Rate) and Wetland E.C. plus Command and Loxone or Wetland E.C. plus Command and Sencor Tank Mixes (Not For Use in California): Wetland E.C. may be tank mixed with Command, Command plus Loxone or Command plus Sencor. Apply the tank mix as a preplant incorporated treatment up to 3 weeks before planting.

Note: The use of an agriculturally approved drift reducing additive is required at finished spray volumes of 10-15 gal/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. Application to overly moist or wet soils will increase the potential for off-site movement of Command vapors and may result in poor soil incorporation and unsatisfactory weed control. These directions must be followed to reduce the potential for off-site movement of Command vapors and potential injury to desirable vegetation including adjacent crops, trees and ornamentals.

Incorporation: Tank mixes containing Command must be incorporated immediately after application. Follow other soil preparation, application and incorporation procedures for Wetland E.C.

Wetland E.C. plus Command: Use the Wetland E.C. plus Command tank mix to control velvetleaf and weeds susceptible to Wetland E.C.

Control of johnsonweed, annual morningglory, prickly sida, common ragweed, smartweed and venice mallow 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.

Broadcast Application Rates/Acre:		
Soil Texture	Wetland E.C. (pints)	Command 4 E.C. (pints)
Coarse	1.0	0.75
Medium	1.5	1.12
Fine	2.0	1.5

Wetland E.C. plus Command and Loxone or Wetland E.C. plus Command and Sencor: Use the Wetland E.C. plus Command and Loxone or Sencor tank mix to control weeds susceptible to Wetland E.C. plus additional weeds listed on the labels for Command and Loxone or Sencor.

Wetland E.C. plus Command and Loxone or Sencor also provides partial control or suppression of 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.

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22 of 26

SOYBEANS (CONT.)

Broadcast Application Rates/Acre:				
Soil Texture	Warrant E.C.	Command 4 E.C.	Lexone 4L or Sencor 4	Lexone or Sencor DF
	(pints)	(pints)	(pints)	(pounds)
Coarse	1.0	0.8	0.33-0.8 [†]	0.25-0.33 [†]
Medium	1.5	0.75	0.5-0.75	0.33-0.5
Fine	2.0	1.12	0.75-1.0	0.5-0.67

[†]Use the higher rate range in areas where weed populations are dense, for control of verice mallow and wild mustard, and for best control of common cocklebur, annual morningglory and giant ragweed.

Precautions:

- Off-site movement of spray drift or vapors of Command can cause foliar whitening or yellowing of adjacent crops, trees and ornamental plants which is usually temporary in nature but can result in permanent injury or death of the plants if the exposure is excessive. Prior to making application of this product, read and strictly follow all precautions, rotational crop guidelines and application instructions on the label for Command.
- Refer to the labels for Lexone and Sencor for additional use directions, precautions and limitations before applying Warrant E.C. plus Lexone or Warrant E.C. plus Sencor tank mix.

Preplant Incorporated Followed by Overlay Treatments (Not For Use In California)

Apply Warrant E.C. as a preplant soil incorporated treatment. Additional weeds tolerant to Warrant E.C. may be controlled using overlay pre-emergence applications of Canopy, Dual, Gemini, Lasso, Lexone, Lorax, Lorax plus, Preview, Pursuit[†], Sceptor^{††} or Sencor or other products registered for pre-emergence use on soybeans, unless use following Warrant E.C. is specifically prohibited by the manufacturer. Consult the manufacturer's labels for application rates, additional weeds controlled, additional use directions and precautions before use.

[†]The use of Pursuit is limited to certain states. Use Pursuit as an overlay treatment following Warrant E.C. only in states specified on the label for Pursuit.

^{††}Use of Sceptor is limited to certain states. Do not use the overlay pre-emergence application with Sceptor following a preplant incorporated treatment with Warrant E.C. in the "Northern Use Area" as defined by the label for Sceptor.

Preplant Incorporated Followed by Postemergence Treatments (Not for Use in California)

Apply Warrant E.C. as a preplant soil incorporated treatment. Additional weeds tolerant to Warrant E.C. may be controlled using post-emergence applications of Basagran, Blazer, Classic, Cobra, Galaxy, Pinnacle, Pursuit[†], Reflex, Sceptor^{††}, Storm, or Talcid or other products registered for post-emergence use on Soybeans, unless use following Warrant E.C. is prohibited by the manufacturer. Consult the manufacturer's labels for application rates, additional weeds controlled, additional use directions, precautions and limitations before use.

[†]Use of Pursuit is limited to certain states. Use Pursuit as a post-emergence treatment following Warrant E.C. only in states specified in the label for Pursuit.

^{††}Use of Sceptor is limited to certain states. Do not use Sceptor as a post-emergence application following a preplant incorporated treat-

ment with Warrant E.C. in the "Northern Use Area" as defined by the label for Sceptor.

SUGAR BEETS

Warrant E.C. - Alone

Apply Warrant E.C. as an over-the-top spray and incorporate. Apply from the time the first true leaves have formed until plants are 6 inches tall.

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C.
	(pints)
Coarse	1.0
Medium	1.25 - 1.5
Fine	1.25 - 1.5

Incorporation: Set incorporation equipment to move treated soil around the plants in the row. Avoid damage to the sugar beet taproot from incorporation equipment.

Precaution: Exposed beet roots should be covered with soil before application of Warrant E.C. to reduce the possibility of girdling.

Incorporation with a Tine-Tooth Harrow (For Use in California, Colorado, Idaho, Nebraska, Oregon, Texas, Utah, Washington and Wyoming)

A tine-tooth harrow (Flexline or Melroe) can be used to incorporate Warrant E.C. in sugar beets. Incorporation with tine-tooth harrow requires 2 passes in opposite directions over the same set of rows. Set the harrow to cut 1 to 2 inches deep and operate at 3 to 6 mph. Set incorporation equipment carefully to avoid damage to sugar beet tap root. Use application procedures and broadcast application rates recommended in preceding section.

Warrant E.C. plus Eptam Tank Mix

Warrant E.C. may be tank mixed with Eptam and applied as an over the top spray followed by incorporation to control additional weeds. Use application rates recommended for sugar beets Warrant E.C. - Alone, above. Refer to the label for Eptam for weeds controlled, application rates, additional use directions, precautions and limitations before use.

SUGARCANE

Warrant E.C. - Alone

Apply and incorporate Warrant E.C. twice a year. Make the first application of Warrant E.C. in the fall on firmly packed beds immediately after the seed pieces are planted. Make the second application of Warrant E.C. in the spring before or shortly after the cane emerges. Loosen rain-packed beds 2-3 inches deep before the spring application. Take care that incorporation equipment does not damage the seed pieces or emerging shoots.

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C.
	(pints)
All Textures	2.0-4.0 [†]

[†]Application rate within rate range may be adjusted according to weed pressure.

Postplant Application for Control of Most Annual Grasses, Including Guinea Grass (For Use in Hawaii)

Surface apply Warrant E.C. after planting (for plant cane) or after harvesting (for ratoon cane). For best results in plant cane, the soil surface should be smooth and finely tilled. Apply Warrant E.C. as soon as possible after tillage and planting before germination and emergence of

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grass weeds. For optimum efficacy in ratoon cane, minimize surface residue from previous crop before applying. Apply **Treflan E.C.** just before anticipated rainfall in non-irrigated and furrow-irrigated sugarcane. Irrigate as soon as possible after applying in drip-irrigated or sprinkle-irrigated sugarcane to activate **Treflan E.C.**

Broadcast Application Rates/Acre:	
Soil Texture	Treflan E.C.
All Textures	(pints) 6.0 - 8.0

Applications Up to Layby for Plant Cane or Ratoon Cane (For Use in Louisiana and Texas)

Apply and incorporate **Treflan E.C.** in spring from shortly before or after cane emergence until layby. Apply after beds have been shaved or false shaved. Loosen rain-packed beds 2 to 3 inches deep before application. Avoid incorporation equipment damage to seed pieces or emerging shoots. Incorporate with a rolling cultivator or bed chopper for all soil textures. Set rolling cultivator to cut 2 to 4 inches deep and operate at 6 to 8 mph. Set bed chopper to cut 3 to 4 inches deep and operate 4 to 6 mph. Two incorporation passes are necessary.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan E.C.
All Textures	(pints) 2.0-4.0†

† Application rate within rate range may be adjusted according to weed pressure.

Inchgrass (Ryegrass) Control (For Use in Louisiana)

Apply and incorporate **Treflan E.C.** on plant or ratoon cane. Follow use directions in preceding section for layby application.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan E.C.
All Textures	(pints) 2.0-4.0

SUNFLOWER

Treflan E.C. - Alone

Apply and incorporate **Treflan E.C.** in the spring before planting or in the fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan E.C.
Coarse	(pints) 1.0
Medium	1.25 - 1.5
Fine	1.5 - 2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 to 2.0 pints
- Fine soils with 2-5% organic matter - 2.0 pints.
- Soils with 5-10% organic matter - 2.0 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Treflan E.C. plus Eptam Tank Mix

Treflan E.C. may be tank mixed with Eptam and applied as a preplant incorporated treatment to control additional weeds in sunflowers in Minnesota, North Dakota and South Dakota. Refer to the label for Eptam for application rates, additional use directions, precautions and limitations before use.

TOMATO

Apply to direct-seeded tomato as a directed spray between rows and beneath plants and incorporate at the time of blocking or thinning. For transplant tomato, apply and incorporate before transplanting. Do not apply after transplanting.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan E.C.
	(pints)
Coarse	1.0
Medium	1.25 - 1.5
Fine	1.5 - 2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints
- Fine soils with 2-5% organic matter - 2.0 pints
- Soils with 5-10% organic matter - 2.0 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

TREE AND VINE CROPS - CITRUS, FRUIT AND NUT CROPS AND VINEYARDS

Application to New Plantings of Citrus, Fruit and Nut Crops

For new plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangerine, tangerine and walnut trees, apply and incorporate **Treflan E.C.** before planting.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan E.C.
	(pints)
Coarse	1.0
Medium	1.25 - 1.5
Fine	1.5 - 2.0

- All soils with 2-5% organic matter - 1.5-2.0 pints
- All soils with 5-10% organic matter - 2.0 pints
- Use lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

Application to New Plantings of Vineyards

For new plantings of vineyards, apply and incorporate **Treflan E.C.** before planting.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan E.C.
	(pints)
Coarse	1.0 - 1.5
Medium	1.5 - 3.0
Fine	3.0 - 4.0

- Soils with 2-10% organic matter - 4.0 pints
- Use lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

Note: Do not use more than 2.0 pt/acre on heat-treated grape rootings.

Application to Established Non-bearing and Bearing Citrus, Fruit and Nut Crops and Vineyards

Warrant E.C. may be applied in established non-bearing and bearing vineyards and plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees. In established plantings, apply Warrant E.C. as a directed spray to the soil and use incorporation methods not injurious to the crop. Do not apply to vineyards within 60 days of harvest.

Broadcast Application Rates/Acre:	
Soil Texture	Warrant E.C.
All Textures	(pints) 2.0-4.0

Application rate within the rate range may be adjusted according to weed pressure.

Rhizome Johnsongrass Control - Special Two-year Use Program

Warrant E.C. may be applied for two consecutive years in a special use program to control rhizome johnsongrass in established vineyards and plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerine and walnut trees. Do not apply to vineyards within 60 days of harvest.

Soil Preparation: Work the soil thoroughly to move rhizomes near the soil surface and cut them into smaller pieces.

Broadcast Application Rates/Acre:	
The following application rate must be applied for two consecutive years:	
Soil Texture	Warrant E.C.
All Textures	(pints) 4.0

Incorporation: Incorporate Warrant E.C. thoroughly with a disc set to cut 4 to 6 inches deep and operate 4 to 6 mph. Two incorporation passes are necessary, with a second pass in a different direction from the first.

Cultivation: Some johnsongrass plants will escape. Timely cultivations are necessary to obtain commercially acceptable control. Commercially acceptable control cannot be obtained with only a single year use of Warrant E.C.

Precautions: Do not use 4 pint rate on new plantings or crop injury may result. Do not interplant orchards or vineyards with other crops. If treated vineyards and orchards are diverted to other crop uses, then in the next cropping season plant only those crops for which Warrant E.C. has been registered as a preplant incorporated treatment.

Bindweed Control in California

Warrant E.C. can be applied using a specially equipped spray blade for the control of field bindweed in vineyards and in plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerine and walnut trees.

Soil Preparation: Destroy existing weeds with soil tillage before applying Warrant E.C. Thorough tillage is necessary to prevent trash from interfering with operation of the spray blade.

Equipment: Application requires a spray blade capable of operation at 4 to 6 inches below the soil surface. The blade should be equipped with nozzles located under the blade and directed so as to allow spray to be trapped in a thin layer as the blade is pulled through the soil. Use a nozzle spacing sufficient to insure application of a uniform horizontal layer.

Application: Apply Warrant E.C. in 40 to 80 gallons of water per acre. Operate blade at a depth of 4 to 6 inches.

Broadcast Application Rate/Acre:	
Soil Texture	Warrant E.C.
All Textures	(pints) 4.0

Precautions: Some soils may develop cracks as they dry after rainfall or irrigation. Field bindweed may emerge if the cracks extend through the layer of Warrant E.C. Prevent or eliminate cracks by shallow disking or other tillage. Avoid deep tillage which disturbs the subsurface layer. Cultivation or tillage also aids the control of germinating seeds.

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Warranty Disclaimer

Dow Elanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. **DOW ELANCO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow Elanco or the seller. All such risks shall be assumed by Buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow Elanco's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought or
2. Replacement of amount of product used.

Dow Elanco shall not be liable for losses or damages resulting from handling or use of this product unless Dow Elanco is promptly notified of such loss or damage in writing. In no case shall Dow Elanco be liable for consequential or incidental damages or losses.

The terms of the "Warranty Disclaimer" above and this "Limitation of Remedies" cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow Elanco or the seller is authorized to vary or exceed the terms of the "Warranty Disclaimer" or the "Limitation of Remedies" in any manner.

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DATE CODE 192

Label Revisions:

1. General: Directions for Use reorganized into a "General Information" and alphabetically arranged "Approved Crops" sections. All use information of a general nature was updated and moved to a "General Information" section.
2. All label text reformatted and edited for clarity.
3. Add use directions for chemications.
4. Amended Uses by crop:
 - a. **Asalts:** Added changes pertaining to water incorporation of sulfate applications, weeds controlled and tank mixes.
 - a. **Chickery/Entive**
 - c. **Field Corn:** Chemigation use and Atrazine and of tank mixes added.
 - d. **Cotton & Soybeans:** Added chemigation use.
 - e. **Cucurbits (Cantaloupe, Cucumber and watermelon):** Geographic restriction to western U.S. deleted.
 - f. **Grain Sorghum:** Chemigation use added. Added tank mix with atrazine.
 - g. **Peanuts:** Added rate for medium size and use on "Florunner" and "Florplant" varieties in addition to Spanish peanuts.
 - h. **Peppers:** Chemigation use added.
5. Crop uses added from previously approved supplemental labeling:
 - a. **Dry and English Peas**
 - b. **Flax:** Fall application only.
 - c. **Forage Legumes:** For use as cover crops (or) in acreage conservation reserve programs.
 - d. **Onions green factory bulbs only**
 - e. **Mustard Greens for Seed or Processed for Food:** Also deleted geographic restrictions on use.
 - f. **Radish:** Deleted geographic restrictions to ID, OR and WA and restriction for seed only use.
 - g. **Rapeseed (Canola)**
 - h. **Small Grains including Barley, Durum and Wheat:**
 - "Special Use Precautions for Use on Small Grains"
 - "Winter Wheat - Fallow Soil Application Prior to Planting recommendation (For Use in ID added), OR and WA)"
 - "Winter Wheat - Postplant Incorporated Treatment (For Use in ID, OR and WA)"
 - "Barley, Spring Seeded - Spring Application Preplant Incorporated for Fomail (Pigeongrass) Control (For Use in MN, ND and SD)"
 - "Barley, Spring Seeded - Spring Application Preplant Incorporated for Fomail (Pigeongrass) Control in Barley Used as a Cover Crop in the Conservation Reserve Program"
 - i. **Sugar Beets:** Atrazine/Eptam tank mix
 - j. **Sugarcane:** "Postplant Application to Control Most Annual Grasses including Guinea Grass (For use in Hawaii)"
 - k. **Sunflower:** Trellis/Eptam tank mix added
 - l. **Wild Oats:** Wild oats added to weeds controlled
6. Uses deleted from main label: Application on Mint, preplant incorporated use on potatoes, all Amaran tank mixes.

LIMITED WARRANTY AND DISCLAIMER

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