

yellow

PM23

34704-242

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FEB 13 1996

Ms. Glenda Haage
Platte Chemical Co.
419 18th St.
Greeley, CO 80632

Dear Ms. Haage:

SUBJECT: Label Amendment Revising Timing of Sugarcane
Application
Trifluralin 4EC
EPA Registration No. 34704-242
Your Application Dated January 8, 1996

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, provided that you:

1. Move the rate statement ("Use 1 1/2 to 2 pints per acre.") following the growth stage for "Field Corn" in the "General Chemigation" instructions to the beginning of the next paragraph, since this statement applies to all crops and not just field corn.
2. Submit one final printed copy of the label before releasing the product for shipment.

A stamped copy is enclosed for your records.

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

RD:STANTON:PM Team 23:Rm. 235:CM-2:305-5218:Disk #2:S499679.LET

CONCURRENCES

SYMBOL ▶	7505C						
SURNAME ▶	S. Stanton						
DATE ▶	Feb 8, 1996						

BEST AVAILABLE COPY



TRIFLURALIN 4EC

NET CONTENTS
DATE
FEB 13 1996

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 34704-242

A selective herbicide for the pre-emergence control of annual grasses and broadleaf weeds.

ACTIVE INGREDIENT:

Trifluralin (a,a,a-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine)	44.5%
INERT INGREDIENTS:	55.5%
TOTAL	100.0%

Contains 4 pounds active ingredient per gallon.

*Contains Petroleum Distillates

KEEP OUT OF REACH OF CHILDREN CAUTION

See Below For Additional Precautions And Directions For Use.

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EPA EST. NO. 34704-MS-1

NET CONTENTS: 2 1/2 GALS. (9.46 L); EXP01P96

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Caution: Causes eye irritation. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on the EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate or viton, shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

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

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. For terrestrial uses, do not apply directly to water, or 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 by cleaning of equipment or disposal of waste.

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush with plenty of water for 15 minutes and get medical attention.
If on skin: Wash contaminated skin with soap and water. Get medical attention.

If inhaled: Move to clear atmosphere. Restore breathing if necessary. Get medical attention.
If swallowed: Do not induce vomiting and get medical attention immediately. Ingestion is toxic and irritating to the stomach. Vomiting may cause asphyxiation into the lungs resulting in pulmonary edema which may be fatal. Gastric lavage may be indicated.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat and open flame.

SPECIAL PRECAUTIONS

Applied according to directions and under normal growing conditions, TRIFLURALIN 4EC will not harm the treated crop. Over application may result in crop injury or a soil residue.

Uneven application or improper soil incorporation can result in erratic weed control or crop injury. Seeding disease, cold weather, deep plowing, excessive moisture, high salt concentration or drought may weaken crop seedlings and increase the possibility of damage. Under these conditions, delayed crop development or reduced yields may result.

In the Western United States—Arizona, Colorado, California, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming, and sugar beet growing areas of Minnesota and North Dakota: To avoid crop injury in arid areas, do not plant sugar beets, red beets or spinach for 12 months after a TRIFLURALIN 4EC spring application or for 14 months after a TRIFLURALIN 4EC fall application. Plow the land to a depth of 12 inches prior to planting sugar beets to prevent the possibility of crop injury. To avoid crop injury do not plant sorghum (milo), corn or oats for 14 months after a spring application or for 16 months after a fall application. If land has not been irrigated, do not plant any of these crops for 18 months after a spring application or 20 months after a fall application.

In the Western United States—Those portions of Kansas, Nebraska, North Dakota, Oklahoma, South Dakota and Texas where at least 25 inches of irrigation and/or rainfall (total) was used to produce the crop:

Do not plant sorghum or oats for 12 months after a TRIFLURALIN 4EC application. If less than 25 inches of total water was used to produce the crop, do not plant sorghum or oats for 18 months after application. Cool wet weather conditions during the early stage of growth may increase the possibility of injury to sorghum.

In the Eastern United States:

Moldboard plow before planting sugar beets where a TRIFLURALIN 4EC spring application was made the previous season. Also note planting restrictions listed in the section on control of rhizome johnsongrass.

In Florida Only:

To avoid crop injury do not plant vegetable crops other than those listed on the label within 3 months following the application of TRIFLURALIN 4EC.

In North Dakota Only:

Green foxtail resistance to Trifluralin and related herbicides in the spring cereal grain production areas: Certain populations of Green foxtail (Pigeongrass) in North Dakota have been identified as resistant to dinitroaniline type herbicides such as trifluralin. Because CLEAN CROP TRIFLURALIN 4EC will not control these resistant Green foxtail, alternative types of herbicides that are not dinitroanilines should be used. The grower assumes all risk of nonperformance due to dinitroaniline resistance if CLEAN CROP TRIFLURALIN 4EC is used to control Green foxtail in affected spring cereal grain production areas.

In Texas Only:

Do not use in Pecos or Reeves Counties

WEEDS AND GRASSES CONTROLLED

TRIFLURALIN 4EC will not control established weeds.

GRASSES CONTROLLED

Annual bluegrass	(<i>Poa annua</i>)
Barnyardgrass	(<i>Echinochloa</i> sp.)
(Watergrass)	
Brachiaria	(<i>Brachiaria</i> sp.)
(Signalgrass)	
Bromegrass	(<i>Bromus tectorum</i>)
(Cheatgrass)	
(Downy brome)	
Cheat	(<i>Bromus secalinus</i>)
(Chess)	

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Crabgrass (Large crabgrass) (Smooth crabgrass)	(<i>Digitaria</i> sp.)
Fall panicum (Spreading panicgrass) (See Corn, Cotton and Soybean sections for special instructions.)	(<i>Panicum dichotomiflorum</i>)
Foxtails (Bottlegrass) (Bristlegrass) (Giant foxtail) (Green foxtail) (Pigeongrass) (Robust foxtail) (Yellow foxtail)	(<i>Setaria</i> sp.)
Goosegrass* (Silver crabgrass) (Silvergrass) (Wiregrass) (Yardgrass)	(<i>Elysiue indica</i>)
Guineagrass (See Sugarcane section for special instructions.)	(<i>Panicum maximum</i>)
Johnsongrass (Seedling and rhizome) (See Soybean section for special instructions on rhizome control.)	(<i>Sorghum halepense</i>)
Jungle rice (Itchgrass) (See Sugarcane section for special instructions.)	(<i>Echinochloa colonum</i>)
Racouigrass (Itchgrass) (See Sugarcane section for special instructions.)	(<i>Rottboellia exaltata</i>)
Sandbur (Burggrass)	(<i>Cenchrus incertus</i>)
Sprangletop (Lovegrass)	(<i>Leptochloa filiformis</i>)
Stinkgrass (Texas panicum) (Buffalograss) (Coloradograss) (See Corn, Cotton, and Soybean sections for special instructions.)	(<i>Eragrostis cilianensis</i>)
Wild Cane (Shattercane) (See Soybean section for special instructions.)	(<i>Sorghum bicolor</i>)

*May be locally resistant.

BROADLEAF WEEDS CONTROLLED

Carpetweed	(<i>Mollugo verticillata</i>)
Chickweed	(<i>Stellaria media</i>)
Field Bindweed (See Trees and Vineyard section for special instructions.)	(<i>Convolvulus arvensis</i>)
Florida pusley (Florida purslane) (Mexican clover) (Pusley)	(<i>Richardia scabra</i>)
Goosefoot	(<i>Chenopodium hybridum</i>)
Henbit (Fall application only.)	(<i>Lamium amplexicaule</i>)
Knotweed	(<i>Polygonum aviculare</i>)
Lambsquarters	(<i>Chenopodium album</i>)
Pigweeds (Carelessweed) (Prostrate pigweed) (Redroot) (Rough pigweed) (Spiny pigweed)	(<i>Amaranthus</i> sp.)
Puncturevine (Western U.S. only) (Caltrop)	(<i>Tribulus terrestris</i>)
Purslane	(<i>Portulaca oleracea</i>)
Stinging nettle (Nettle)	(<i>Urtica dioica</i>)

TRIFLURALIN 4EC will not control certain resistant weeds such as cocklebur, jimsonweed, kochia, nutsedge (nutgrass), ragweed, Russian thistle, velvetleaf or Venice mallow.

Weeds controlled in soybeans by the TRIFLURALIN 4EC/Sencor® or TRIFLURALIN 4EC/Lexone® tank-mix in addition to those controlled by TRIFLURALIN 4EC alone.

(See Soybean section for special instructions.)	
Jimsonweed	(<i>Datura stramonium</i>)
Mallow, Venice (Flower-of-an-hour)	(<i>Hibiscus trionum</i>)
Mustard, wild (Charlock) (Field mustard)	(<i>Brassica kaber</i>)
Ragweed, common	(<i>Ambrosia artemisiifolia</i>)
Sesbania, hemp (Coffeebean) (Indigo)	(<i>Sesbania exaltata</i>)
Smartweed, Annual (Pennsylvania smartweed) (Smartweed)	(<i>Polygonum pensylvanicum</i>)

Prickly sida (Teaweed) (Spiny sida)	(<i>Sida spinosa</i>)
Velvetleaf (Butterprint) (Buttonweed) (Cottonweed) (Elephant's Ear) (Indian mallow) (Piemont)	(<i>Abutilon theophrasti</i>)

Cocklebur, morning-glory and giant ragweed: Control of cocklebur, morning-glory and giant ragweed (horseweed) 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. Where cocklebur is a serious problem, an overlay of Sencor or Lexone may be preferable to a tank mix.

Weeds controlled in dry beans and potatoes by the TRIFLURALIN 4EC/Eptom® /EPTC tank-mix in addition to those controlled by TRIFLURALIN 4EC alone. (See Drybean, Potato section for special instructions.)

Henbit (Spring applications)	(<i>Lamium amplexicaule</i>)
Nightshade, black Nightshade, hairy	(<i>Solanum nigrum</i>) (<i>Solanum sarachoides</i>)
Nutsedge (Nutgrass) (Purple nutsedge) (Yellow nutsedge)	(<i>Cyperus</i> sp.)

Oat, wild
Weeds controlled in soybeans by the TRIFLURALIN 4EC/Amben® tank mix in addition to those controlled by TRIFLURALIN 4EC alone. (See Soybean section for special instructions.)

Ragweed, Common	<i>Ambrosia artemisiifolia</i>
Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>
Velvetleaf (Buttonweed)	<i>Abutilon theophrasti</i>
TRIFLURALIN 4EC preplant soil incorporated with an Amben application pre-emergence controls the following additional weeds:	
Coffeeweed (Sesbania)	<i>Sesbania exaltata</i>
Mustard, Wild	<i>Brassica kaber</i>
Nightshade, Black	<i>Solanum nigrum</i>
Prickly sida (Teaweed)	<i>Sida spinosa</i>
Ragweed, Common	<i>Ambrosia artemisiifolia</i>
Spurge, Annual	<i>Euphorbia maculata</i>
Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>
Stinkgrass	<i>Eragrostis cilianensis</i>
Velvetleaf (Buttonweed)	<i>Abutilon theophrasti</i>

Weeds controlled in cotton by the TRIFLURALIN 4EC/Carop® tank mix in addition to those controlled by TRIFLURALIN 4EC alone. (See Cotton section for special instructions.)

Smartweed	Groundcherry (Annual)
Prickly sida (Teaweed)	Mustard
Annual morning-glory	Malva
Ragweed	Wild oat

The tank mix also controls shallow-germinating seedlings of:
Cocklebur
Coffeeweed

Weeds controlled in cotton by the TRIFLURALIN 4EC/Cotoran® tank mix or Cotoran overlaid post plant pre-emergence in addition to those controlled by TRIFLURALIN 4EC alone, where TRIFLURALIN 4EC has been applied as a preplant soil incorporated herbicide in cotton. (See Cotton section for special instructions.)

Ryegrass	Prickly sida (Teaweed)
Buttonweed	Ragweed
Cocklebur	Sesbania
Goathead	Sicklepod
Groundcherry, Wright	Smartweed
Jimsonweed	Tumbleweed
Morning glory	

Weeds controlled in cotton by an overlay treatment of Diuron 80 post plant pre-emergence in fields where TRIFLURALIN 4EC has been applied as a preplant soil incorporated herbicide in addition to those controlled by TRIFLURALIN 4EC alone. (See Cotton section for special instructions.)

Ragweed	Shepherdspurse
Groundcherry (Annual)	Velvetgrass
Dogfennel	Wild lettuce
Pennycress	Wild mustard
Morning-glory, Annual	

The tank mix of TRIFLURALIN 4EC plus Fen-30 will control wild oat in peas grown in Idaho, Oregon, and Washington in addition to the weeds controlled by TRIFLURALIN 4EC alone. (See Pea section for special instructions.)

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination,

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notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to use of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Exception: if the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls, chemical-resistant gloves, such as barrier laminate or viton, and shoes plus socks.

STORAGE AND DISPOSAL

PROHIBITIONS—Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly.

STORAGE—Avoid freezing. Do not store below temperature of (40°F). If frozen, poor weed control may result. Store in safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

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

CONTAINER DISPOSAL: Metal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic: 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.

TRIFLURALIN 4EC is a pre-emergence herbicide which is mixed (incorporated) into the soil to provide long-lasting control of a wide range of annual grasses and broadleaf weeds. TRIFLURALIN 4EC controls weeds as they germinate but will not control established weeds.

SOIL TEXTURE

One key to getting good results with TRIFLURALIN 4EC is to know your soil texture so that you can apply the correct rate. The amount you apply to your soil will vary with the soil texture. A fine-textured soil requires more TRIFLURALIN 4EC than a coarse-textured soil.

Soil Texture Guide:

Refer to the following guide to determine your soil texture.

Coarse** Soils	Sand Loamy sand Sandy loam
Medium Soils	Loam Silty clay loam* Silt loam Silt
Fine** Soils	Sandy clay loam* 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 predominately sand or silt, they are usually classified as medium-textured soils; if predominately clay, they are usually classified as fine-textured soils.

** Soil classification nomenclature for light and heavy-textured soils have been changed to coarse and fine-textured soils at the direction of the Environmental Protection Agency. Throughout this label all previous references to light-textured soils have been changed to coarse-textured soils. All previous references to heavy-textured soils have been changed to fine-textured soils. These new descriptions relate more closely to the size of the soil particles in a given classification.

SOIL PREPARATION

Destroy existing weeds before TRIFLURALIN 4EC application. Chop and thoroughly mix crop residues into the soil to a depth of at least 4 to 6 inches by deep plowing or discing before application. Use machinery that breaks up large clods before application. Crop residue and soil surface must allow for uniform incorporation into the top 2 to 3 inches of soil.

APPLICATION

Add the recommended amount of TRIFLURALIN 4EC to clean water in the spray tank during the filling operation. Agitate before spraying. Apply in from 5 to 40 gallons of water per acre (broadcast basis), using any properly calibrated low-pressure herbicide sprayer that will apply the

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spray uniformly. As the amount of water used (spray volume) decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily to insure proper calibration and uniform application. Apply TRIFLURALIN 4EC to the soil surface and incorporate in the same operation, if possible. Do not apply to soils which are wet or in poor condition. Do not apply to soils which are subject to prolonged periods of flooding.

AERIAL APPLICATION

For best results from aerial application of TRIFLURALIN 4EC, apply to a dry soil surface at a spray volume of from 4 to 10 gallons per acre. Adjust pump pressure, nozzle arrangements, flying speed and flying height to provide a uniform application to the soil surface. Use markers to assure proper application spray widths.

Do not apply TRIFLURALIN 4EC by aircraft when the wind is blowing at a velocity of 5 mph or greater. This will cause drift of spray particles and result in non-uniform application.

GENERAL CHEMIGATION

Use TRIFLURALIN 4EC at rates and stages of growth recommended on the label, except as noted below. Apply in 1/2 to 1 acre inch of irrigation water. Mechanical incorporation is not necessary when TRIFLURALIN 4EC is applied through the irrigation system but, except for established alfalfa, soil preparation must be done according to label instructions.

Treat only the following crops at stage named:

ALFALFA: Apply during dormancy, semi-dormancy or immediately following a cutting. Destroy existing weeds before application.

POTATOES: (Columbia River Basin of Washington and Oregon only): Apply after potato plants have fully emerged on coarse and medium soils.

BEANS: (All types named on label): Preplant except no fall application.

SOYBEANS: Preplant except no fall application.

FIELD CORN: Two-leaf to 30 inches. Use 1 1/2 to 2 pints per acre.

Apply this product only through sprinkler, including center pivot, lateral move, and tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation system(s). 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 Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

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.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note: Platte Chemical Company does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options to make such a connection.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction.

As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must 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.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. 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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

SPRINKLER CHEMIGATION

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 backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

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.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure

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decreases to the point where pesticide distribution is adversely affected. 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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Mix in clean supply tank the recommended amount of this product for acreage to be covered, and needed quantity of water.

This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use.

Follow precautionary statements and directions for all tank-mix products. Meter this product into the irrigation water uniformly during the period of operation.

Do not overlap application. Follow recommended label rates, application timing, and other directions and precautions for crop being treated.

Continuous mild agitation of pesticide mixture may be needed to assure a uniform application, particularly if the supply tank requires a number of hours to empty.

INCORPORATION DIRECTIONS

Incorporation Before Planting

For best results TRIFLURALIN 4EC should be incorporated as soon as possible after application. TRIFLURALIN 4EC must be incorporated one time within 24 hours after application. A second incorporation is required with most equipment (see Incorporation Equipment section for specific instructions). If TRIFLURALIN 4EC is applied to a wet, warm soil surface or if the wind velocity is 10 mph or higher variable weed control may result from delaying the first incorporation beyond 24 hours.

Incorporation should place the TRIFLURALIN 4EC into the top 2 to 3 inches of the final seedbed. Generally, incorporation equipment will place the chemical approximately half as deep as the equipment is run. For example, a disc running 4 inches deep will incorporate TRIFLURALIN 4EC approximately 2 inches deep.

Incorporation After Planting

(Check crop list for those crops approved for incorporation after planting.)

When incorporating TRIFLURALIN 4EC after planting or on established row crops use P.T.O.-driven equipment or rolling cultivators. Adjust equipment to till the soil over the seed or throw treated soil toward the crop. Avoid disturbing the seed or mechanically damaging the crop.

Incorporation In Bedded Culture

For effective weed control, TRIFLURALIN 4EC should be incorporated into the top 2 to 3 inches of the final seedbed.

Knock off beds to planting height before application and incorporation on bedded ground. If TRIFLURALIN 4EC is applied and incorporated before bedding, do not furrow cut deeper than the depth to which TRIFLURALIN 4EC was incorporated. Furrowing too deep will expose untreated soil and allow weeds to germinate in the bottom of the furrow.

Avoid removal of treated soil from the seedbed before or during the planting operation. This will expose untreated soil and allow weeds to germinate in the drill row.

Incorporation Equipment

Use machinery that mixes TRIFLURALIN 4EC thoroughly with the soil. Shallow incorporation with implements set to cut less than 2 inches deep may result in erratic weed control. Use of incorporation equipment not listed upon the label may result in poor or erratic weed control and/or crop injury. Except as recommended in the individual crop directions, recommended equipment includes:

Disc set to cut 4 to 6 inches deep and operated in 2 different directions at 4 to 6 mph. A tandem or double-disc operated one time does not provide adequate incorporation.

Field cultivator set to cut 3 to 4 inches deep and operated at 5 mph or more. The field cultivator used alone or in combination with the double-disc will provide effective incorporation providing the following instructions are used:

1. Two passes over the field with a field cultivator with the second pass running at an angle to the first. Do not set cultivator to cut deeper than 4 inches, particularly on the second pass, since untreated soil may be turned up.
2. Field cultivator used for the first pass and the double-disc used for the second pass.
3. Double-disc used for the first pass and the field cultivator used for the second pass.

NOTE: 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.

Rolling cultivator set to cut 2 to 4 inches deep and operated 2 times at 6 to 8 mph. Rolling cultivators are adequate for use on coarse and medium-textured soils only (except when used in sugarcane where the rolling cultivator may be used on fine-textured soils).

Bed conditioner (Do-All) set to cut 2 to 4 inches deep and operated one time at 4 to 6 mph. Bed conditioners are adequate for use on coarse and medium-textured soils only. In bedded culture, one pass is adequate.

Mulch treader and other similar disc-type implements set to cut 3 to 4 inches deep and operated at 5 to 8 mph in two different directions.

P.T.O.-driven equipment (tillers, cultivators, hoes) set to cut 2 to 3 inches deep with rotors spaced to provide a clean sweep of the soil and operated one time. P.T.O.-driven equipment should not be operated at a speed greater than 4 mph.

Other equipment, including the flexible line-tooth harrow (Flexline, Melroe) is also recommended but only for the special programs for which it is specified in this label.

CULTIVATION AFTER PLANTING

Soil treated with TRIFLURALIN 4EC may be shallow-cultivated, rotary-hoed or hand-hoed without reducing the weed control activity of TRIFLURALIN 4EC. Do not cultivate deeper than the TRIFLURALIN 4EC treated layer of soil since this may bring untreated soil to the surface and poor weed control may result.

REGIONAL USE MAP



All crop recommendations on this label are given on a regional basis. The dividing line between the Eastern and Western United States is that point where the average rainfall per year is a minimum of 20 to 25 inches. Because the map is based on average conditions, it should be used as a guideline only. Consult your local Agricultural Extension Service and local weather service for information on specific use recommendations and conditions in your area. Note: Sugar beet growing areas of Minnesota and North Dakota are sometimes grouped with Western U.S. on this label.

CROP RECOMMENDATIONS

Important: The following crop recommendations are based on average rainfall conditions. When the annual rainfall amount in your area is radically different than normal, the use recommendations on this label may not be appropriate. For example, below normal rainfall in the Eastern U.S. may result in abnormally long TRIFLURALIN 4EC carryover. Planting of susceptible rotational crops may then result in crop loss or injury. In the Western U.S., abnormally high rainfall may reduce the period of effective weed control. For all areas, use rates and rotational crops should be determined based on both local factors and crop recommendations on this label. Read the NOTICE OF WARRANTY for manufacturer's disclaimer of liability. If its conditions are not acceptable, do not use this product.

Eastern United States

GENERAL

These recommendations are given as the broadcast (overall) rates of TRIFLURALIN 4EC per acre. For band applications, use proportionately less. Apply TRIFLURALIN 4EC any time after January 1 when the soil can be worked. Also see general and specific fall application directions. TRIFLURALIN 4EC is not recommended on muck soils. Where a rate range is shown, use the lighter rate for more coarse soils or soils with lower organic matter.

Western United States

GENERAL

These recommendations are given as the broadcast (overall) rates of TRIFLURALIN 4EC per acre. For band application, use proportionately less. TRIFLURALIN 4EC is not recommended for peat soils exceeding 20% organic matter or on any muck soils. Do not exceed recommended rates at any time. Where a rate range is shown, use the lighter rate for more coarse soils or soils with lower organic matter.

TRIFLURALIN 4EC APPLIED ALONE AND IN TANK MIXES WITH FLUID FERTILIZERS

GENERAL

TRIFLURALIN 4EC alone and TRIFLURALIN 4EC tank mixes may be mixed with most fluid (liquid) fertilizer materials. TRIFLURALIN 4EC alone and TRIFLURALIN 4EC combinations with solution and suspension-type fertilizers has provided weed and grass control as claimed on the respective labels.

All recommendations for TRIFLURALIN 4EC alone or TRIFLURALIN 4EC tank mix combinations regarding rates for the approved crops, incorporation, special instructions, warnings and special precautions must be followed.

All individual state regulations relating to fluid fertilizer mixing, registration, labeling and application are the responsibility of the individual and/or company selling the fertilizer and chemical mixture.

COMPATIBILITY TEST

TRIFLURALIN 4EC alone and TRIFLURALIN 4EC combinations and some fluid fertilizer materials may not combine properly. Small quantities should always be tested before full-scale mixing.

1. Put 1 part of fertilizer mixture in a quart jar.
2. Add 2 teaspoons of TRIFLURALIN 4EC and proportional amount of other tank mix products.
3. Close jar and shake well.
4. Watch mixture for several seconds, check again 30 minutes later.
5. If the mix does not separate, or if agitation is only needed to resuspend the mix, the combination may be used. If the mixture separates, gets very thick or syrupy, DO NOT combine for field application.

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6. Mixing ability may be improved by adding a compatibility agent. Follow the procedure outlined above and add 0.1 teaspoonful of the compatibility agent in Step 2. Complete the other steps to determine if the compatibility agent solves the problem.

If one is needed use a compatibility agent cleared for use on growing crops.

MIXING

If a compatibility agent is needed, add it to the fluid fertilizer before adding the TRIFLURALIN 4EC alone or TRIFLURALIN 4EC combination. If compatibility is a problem, mix 2 quarts of water with 1 quart of TRIFLURALIN 4EC alone before pouring into the fertilizer.

Usually, TRIFLURALIN 4EC alone may be poured directly into the fluid fertilizer and mixed thoroughly. Wettable powders, dry flowables, liquid flowables or aqueous suspensions should be mixed with the liquid fertilizer before adding TRIFLURALIN 4EC. Add solution formulations last. Continued agitation is needed until application is complete.

APPLICATION

Spread the fertilizer/chemical mixture normally with a properly calibrated applicator. Be certain the material is applied uniformly to the soil surface.

INCORPORATION

Follow normal TRIFLURALIN 4EC incorporation procedures.

TRIFLURALIN 4EC APPLICATION WITH DRY BULK FERTILIZERS

GENERAL

Dry bulk fertilizers may be impregnated or coated with TRIFLURALIN 4EC. Application of dry bulk fertilizers impregnated with TRIFLURALIN 4EC has provided weed and grass control equal to the same rates of TRIFLURALIN 4EC applied in water.

All TRIFLURALIN 4EC label recommendations regarding rates per acre, approved crops, incorporation, special instructions, cautions and special precautions must be followed.

All individual state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the fertilizer and chemical mixture.

LIMITATIONS

Apply a minimum of 200 pounds per acre of dry fertilizer impregnated with TRIFLURALIN 4EC at the recommended rates. Any commonly used dry fertilizers can be used for TRIFLURALIN 4EC impregnation *except* straight coated ammonium nitrate and straight 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. The nozzle or nozzles used to spray the TRIFLURALIN 4EC on to the fertilizer should be placed to provide uniform spray coverage.

RATES

Check the crop section to determine the rate of TRIFLURALIN 4EC per acre. See the rate table which follows to determine the amount of TRIFLURALIN 4EC to be impregnated on a ton of dry bulk fertilizer based on the amount of fertilizer which will be applied per acre. (See rate chart.)

APPLICATION

Spread the fertilizer/chemical mixture normally with a properly calibrated applicator. Be certain the material is applied uniformly to the soil surface.

INCORPORATION

Follow normal TRIFLURALIN 4EC incorporation procedures.

RATE CHART FOR IMPREGNATING FERTILIZER WITH TRIFLURALIN 4EC

TRIFLURALIN 4EC added to a TON of fertilizer.	
Fertilizer Rate Per Acre	TRIFLURALIN 4EC Rate Per Acre
	1 pint
200 pounds	10 pts. or 5 qts. per ton
250 pounds	8 pts. or 4 qts. per ton
300 pounds	6 3/4 pts. or 3 1/2 qts. per ton
350 pounds	5 3/4 pts. or 2 3/4 qts. per ton
400 pounds	5 pts. or 2 1/2 qts. per ton
450 pounds	4 1/2 pts. or 2 1/4 qts. per ton

RATE CHART FOR IMPREGNATING FERTILIZER WITH TRIFLURALIN 4EC cont'd.

TRIFLURALIN 4EC added to a TON of fertilizer.		TRIFLURALIN 4EC Rate Per Acre		
Fertilizer Rate Per Acre	2 pints	3 pints	4 pints	
200 pounds	10 qts. or 2 1/2 gal. per ton	15 qts. or 3 3/4 gal. per ton	20 qts. or 5 gal. per ton	
250 pounds	8 qts. or 2 gal. per ton	12 qts. or 3 gal. per ton	16 qts. or 4 gal. per ton	
300 pounds	14 pts. or 1 3/4 gal. per ton	20 pts. or 2 1/2 gal. per ton	27 pts. or 13 1/2 qt. per ton	
350 pounds	12 pts. or 1 1/2 gal. per ton	17 pts. or 2 1/4 gal. per ton	23 pts. or 2 3/4 gal. per ton	
400 pounds	5 qts. or 1 1/4 gal. per ton	15 pts. or 1 7/8 gal. per ton	10 qts. or 2 1/2 gal. per ton	
450 pounds	4 1/2 qts. or 1 1/8 gal. per ton	13 1/2 pts. or 1 3/8 gal. per ton	9 qts. or 2 1/4 gal. per ton	

For rates other than those listed above, use the following formula to calculate the amount of TRIFLURALIN 4EC to be impregnated on a ton of dry bulk fertilizer:

$$\text{Pints TRIFLURALIN 4EC Per Acre} \times \frac{1000}{\text{lbs. Fertilizer Per Acre}} = \text{Quarts TRIFLURALIN 4EC per Ton of Fertilizer}$$

FALL APPLICATION—General—For areas receiving more than 20 inches average annual rainfall: See directions for specific crops. For any crop on the TRIFLURALIN 4EC label for which there is no specific directions for fall application and for which preemergence application is recommended, use the rate shown for spring application.

Exceptions: Do not fall apply TRIFLURALIN 4EC on sugarbeets, potatoes and direct-seeded tomatoes. Do not make fall applications to soils that are wet, prone to prolonged periods of flooding, or where rice was grown the previous season.

Soil Preparation: Ground may be left flat or bedded-up over winter. For bedded ground, knock beds down to desired height before planting, moving some treated soil from beds into furrows. If soil is left over winter, exercise care to not turn up untreated soil during spring bedding operations. Remove established weeds during seedbed preparations as they will not be controlled by TRIFLURALIN 4EC. If weeds become established in furrows due to uncovering of untreated soil during bedding, destroy such weeds before planting.

Timing: In most states, apply and incorporate TRIFLURALIN 4EC any time between October 15 and December 31. In the states of MN, MT, ND and SD, apply and incorporate TRIFLURALIN 4EC between September 1 and December 31.

ALFALFA—Established Alfalfa Only: (Western U.S. Only)

Apply to established alfalfa stands at a broadcast rate per acre of 1 1/2 pints on coarse soils and 2 pints on medium and fine soils. Use incorporation equipment that will insure thorough soil mixing with a minimum of damage to the established alfalfa.

ASPARAGUS—Established—Single or split application for pre-emergent weed control: Follow recommended procedures for soil preparation application and incorporation found near the beginning of the TRIFLURALIN 4EC label. Volunteer seedling asparagus and field bindweed will be suppressed (reduced in stand and vigor) in addition to weeds otherwise controlled by this product.

Single application—Apply in the winter or early spring after ferns are removed but before spears emerge. Alternatively, apply after harvest in the late spring or early summer before ferning begins.

Split application—Apply at both times described in "Single Application" (before harvest and after harvest), but at reduced rate.

SOIL TEXTURE	BROADCAST TRIFLURALIN 4EC RATE	
	Split Application	
	Before Harvest + After Harvest	Single Application Before OR After Harvest
Coarse soils	1 pt. + 1 pt.	2 pts. OR 2 pts.
Medium Soils	1 1/2 pts. + 1 1/2 pts.	3 pts. OR 3 pts.
Fine soils	2 pts. + 2 pts.	4 pts. OR 4 pts.

The maximum application per calendar year is 2 pts. per acre on coarse soils, 3 pts. per acre on medium soils and 4 pts. per acre on fine soils.

BEANS—Castor Beans:

Apply and incorporate TRIFLURALIN 4EC before planting.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4-1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.
Soils with 2 to 5% organic matter	1 1/2-2 pts.	1 1/2-2 pts.
Soils with 5.1 to 10% organic matter	2 pts.	2 pts.

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BEANS—Dry Beans (Kidney, Navy, Pinto, Etc.):

Apply and incorporate TRIFLURALIN 4EC before planting.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4-1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.
Soils with 2 to 5% organic matter	1 1/2-2 pts.	1 1/2-2 pts.
Soils with 5.1 to 10% organic matter	2 pts.	2 pts.

BEANS—TRIFLURALIN 4EC/Eptam/EPTC Tank-Mix for Dry Beans:

The TRIFLURALIN 4EC/Eptam/EPTC tank-mix effectively controls henbit, black nightshade and nutsedge (nutgrass) in addition to all of the annual grasses and broadleaf weeds listed on the TRIFLURALIN 4EC label. Follow normal procedures for soil preparation. The TRIFLURALIN 4EC/Eptam/EPTC tank-mix should be applied from 2 days before planting (up to planting in the Eastern U.S.).

Apply at a broadcast rate of 1 pint of TRIFLURALIN 4EC and 2 1/2 to 3 1/2 pints of Eptam/EPTC 7E per acre or up to the label recommended rate for each herbicide depending on soil texture and weed problem. Use the higher rate of Eptam/EPTC for nutsedge control. TRIFLURALIN 4EC at 1 pint per acre, alone or in combination, should not be used on soils containing 5% or more organic matter. Incorporate immediately after application. Follow normal TRIFLURALIN 4EC procedures for cultivation.

Caution: Read the Eptam/EPTC label before using. Observe all cautions and limitations on labeling of all products used in mixtures. The combination of TRIFLURALIN 4EC and Eptam/EPTC should not be used on soybeans, black-eyed peas (beans), lima beans and other flatpodded beans, except Romano. Do not use the foliage from a crop treated with the TRIFLURALIN 4EC/Eptam tank-mix for feed or for grazing.

BEANS—Fall Application in Dry Beans Grown in Idaho, Oregon and Washington Only:

For dry beans grown in Idaho, Oregon and Washington: Apply and incorporate TRIFLURALIN 4EC at a broadcast rate per acre of 1 pint on coarse soils; 1 1/4 to 1 1/2 pints on medium soils; and 1 1/2 pints on fine soils.

BEANS—Guar Beans and Mungbeans:

Apply and incorporate TRIFLURALIN 4EC before planting at a broadcast rate per acre of 1 pint on coarse soils and 1 1/2 pints on medium and fine soils.

BEANS—Lima Beans and Snap Beans:

Apply and incorporate TRIFLURALIN 4EC before planting at a broadcast rate per acre of 1 pint on coarse and medium soils and 1 1/2 pints on fine soils.

CARROTS:

Apply and incorporate TRIFLURALIN 4EC before planting.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4-1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.
Soils with 2 to 5% organic matter	1 1/2-2 pts.	1 1/2-2 pts.
Soils with 5.1 to 10% organic matter	2 pts.	2 pts.

CELERY—Both Direct-seeded and Transplant: (Western U.S. Only)

Apply and incorporate TRIFLURALIN 4EC before planting or transplanting at a broadcast rate per acre of 1 pint on coarse soils; 1 1/4 to 1 1/2 pints on medium soils; 1 1/2 pints on fine soils; 1 1/2 to 2 pints on soils with 2 to 5% organic matter; and 2 pints on soils with 5.1 to 10% organic matter.

COLE CROPS—Broccoli, Brussels Sprouts, Cabbage and Cauliflower:

For Direct-Seeded cole crops apply and incorporate before planting. (Eastern U.S.—Direct-seeded cole crops have exhibited marginal tolerance to recommended rates of TRIFLURALIN 4EC. Stunting or reduced stands may occur.)

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 pt.	1 pt.
Fine soils	1 1/2 pts.	1 pt.
Soils with 2 to 5% organic matter	1 1/2 pts.	—
Soils with 2 to 10% organic matter	—	1 1/2 pts.

For Transplant cole crops apply and incorporate TRIFLURALIN 4EC before transplanting. Do not apply TRIFLURALIN 4EC after transplanting.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4 to 1 1/2 pts.

Fine soils 2 pts. 1 1/2 pts.

Soils with 2 to 5% organic matter 1 1/2 pts. 1 1/2 to 2 pts.

Soils with 5.1 to 10% organic matter 2 pts. 2 pts.

CORN (FIELD), GRAIN SORGHUM (MILO)—Over-the-top or directed spray for preemergent weed control: (see "WEEDS AND GRASSES CONTROLLED" section of label).

Field Preparation—Field should be cultivated prior to application of TRIFLURALIN 4EC to provide loose tilth, remove established weeds and deposit a soil cover at the base of crop plants.

Application—Make application when the crop is well established (minimum 8 inch height). Apply the recommended rate either as an over-the-top spray or as a directed spray. Cover soil surface uniformly with spray using drop nozzles if required. Use the lower rates when light weed pressure is expected and higher rates when heavy weed pressure is expected.

Apply and incorporate the following rates per acre:

Coarse soils	3/4 to 1 pt.*
Medium soils	1 to 1 1/2 pts.
Fine soils	1 1/2 to 2 pts.

*In corn only, apply 1 to 1 1/2 pts. to control fall panicum and Texas panicum in the states of AL, FL, GA, NC, SC and VA.

Incorporation—A correctly adjusted rolling cultivator or sweep-type cultivator can accomplish incorporation in one pass. Carefully adjust incorporation implement to avoid direct injury to crop. A sweep-type cultivator should have 3 to 5 sweeps per row middle and be operated at 6 to 8 mph. Adjust sweeps so as to avoid exposing untreated soil.

Important: Do not use TRIFLURALIN 4EC on corn grown for seed. Do not make preplant or crop preemergence applications to corn or sorghum as crop injury or loss may occur.

COTTON—Pre-emergence applications:

Apply and incorporate TRIFLURALIN 4EC before planting, at planting or immediately after planting using the following broadcast rates per acre:

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4 to 1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.

Soils with 2 to 5% organic matter 1 1/2 pts. 1 1/2 to 2 pts.

Soils with 5.1 to 10% organic matter 2-2 1/2 pts. 2 pts.

When incorporating after planting (post-plant), care must be taken not to disturb the seed.

Seedling disease may weaken cotton plants and increase the possibility of damage from TRIFLURALIN 4EC. To control seedling disease, use a good fungicide program.

COTTON—Post-emergence applications:

Apply TRIFLURALIN 4EC any time up to layby, but not less than 90 days before harvest. Direct layby applications to the soil between the rows and beneath emerged cotton plants. Use the same rates as for a pre-emergence application.

COTTON—Fall Application:

For cotton grown in Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri, North Carolina, New Mexico, Oklahoma, South Carolina, Tennessee and Texas: Apply and incorporate TRIFLURALIN 4EC at a broadcast rate per acre of 2 pints on coarse and medium soils and 2 1/2 pints on fine soils. For cotton grown in Arizona, California and Nevada: Apply and incorporate TRIFLURALIN 4EC at a broadcast rate per acre of 1 1/2 pints on coarse soils; 2 pints on medium soils and 2 1/2 pints on fine soils. For cotton grown in states other than those listed above: Apply and incorporate TRIFLURALIN 4EC at a broadcast rate per acre of 1 pint on coarse soils; 1 1/2 pints on medium soils; 2 pints on fine soils; 1 1/2 pints on coarse soils with 2 to 5% organic matter; and 2 to 2 1/2 pints on soils with 5.1 to 10% organic matter.

COTTON—Fall panicum and Texas panicum control:

For the control of fall panicum and Texas panicum in the states of Alabama, Florida, Georgia, North Carolina, South Carolina and Virginia, apply and incorporate TRIFLURALIN 4EC at the broadcast rate of 2 pints per acre on both coarse and medium soils.

Plant cotton after early season adverse weather conditions have passed. Do not plant cotton deeper than 1 inch. Crop injury in the form of delayed growth or reduced yields may occur under adverse cool, wet weather conditions when TRIFLURALIN 4EC is used according to these special recommendations.

COTTON—Rhizome Johnsongrass control:

All Cotton Producing States except Arizona and California. Commercially acceptable control of rhizome Johnsongrass can be obtained with a double-rate TRIFLURALIN 4EC program when applied for 2 years in a row.

Soil Preparation—Proper preparation of the soil before application is very important for satisfactory results. Use a chisel plow or similar implement to bring rhizomes to the top of the soil. Then follow with a disc before application to cut the rhizomes into small (2 to 3-inch) pieces. This should also destroy any emerged Johnsongrass.

Application—Choose the one application program that best fits your cultural practices:

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Spring Application—Apply TRIFLURALIN 4EC any time in the spring before planting for 2 years in a row at a broadcast rate per acre of 2 pints on coarse soils; 3 pints on medium soils and 4 pints on fine soils, OR

Fall Application—Apply TRIFLURALIN 4EC between October 15 and December 31 for 2 years in a row at the same rates as a spring application for the control of rhizome Johnsongrass.

Incorporation—Deep incorporation is essential to good rhizome Johnsongrass control. Incorporate TRIFLURALIN 4EC thoroughly with a disc set to cut 4 to 6 inches deep and operate in 2 different directions at 4 to 6 mph.

Cultivation—Some Johnsongrass plants will escape. Timely cultivations during the crop season are necessary to obtain commercially acceptable control. Commercially acceptable control will not be obtained with only 1 year of double-rate TRIFLURALIN 4EC use.

Precautions: Plant cotton after early season adverse, wet-weather conditions have passed. Crop injury in the form of reduced stands and delayed growth will occur under adverse cool, wet-weather conditions early in the season and may result in delayed maturity and reduced yields when TRIFLURALIN 4EC is used according to these recommendations. High quality seed accompanied by a good fungicide program to control seeding diseases in addition to other recommended cultural and chemical practices should be used to minimize crop injury from TRIFLURALIN 4EC.

In the season following either the 1 or 2-year treatments, plant only those crops for which TRIFLURALIN 4EC has been registered as a preplant treatment or injury may result.

COTTON—More Complete Control of Pigweed and Seedling Johnsongrass in Cotton Grown in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Southeastern Missouri, North Carolina, South Carolina, Tennessee and southern Virginia:

For more complete control of pigweed and seedling johnsongrass, TRIFLURALIN 4EC may be applied preplant at a broadcast rate per acre of from 1 to 1 1/2 pints on coarse soils, from 1 1/2 to 2 pints on medium soils and 2 pints on fine soils except in the state of Louisiana where 3 pints per acre are recommended on fine soils.

Precaution: Plant cotton after early season adverse weather conditions have passed. Do not plant cotton deeper than 1 1/2 inches. Crop injury in the form of delayed growth may occur under adverse cool, wet weather conditions early in the season when TRIFLURALIN 4EC is used according to these recommendations.

COTTON—More Complete Weed and Grass Control in Certain Counties Along the Texas Gulf Coast:

For more complete control of those weeds and grasses listed in the TRIFLURALIN 4EC label in the Texas Gulf Coast Counties of Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller and Wharton, TRIFLURALIN 4EC may be applied up to 2 weeks before planting at a broadcast rate of 1 1/2 pints on coarse soils, 2 pints on medium soils and 3 pints on fine soils.

Precaution: Plant cotton after early season adverse weather conditions have passed. Do not plant cotton deeper than 1 1/2 inches. Crop injury in the form of delayed growth may occur under adverse cool, wet weather conditions early in the season when TRIFLURALIN 4EC is used according to these recommendations.

COTTON—TRIFLURALIN 4EC/Caparol® tank mix for cotton grown in California, Arizona, New Mexico, and Texas:

The TRIFLURALIN 4EC/Caparol combination will control certain grasses and broadleaf weeds listed on the TRIFLURALIN 4EC label. This combination will also control shallow-germinating seedlings of cocklebur and coffeeweed.

NOTE: This combination will not control sunflower, rhizome johnsongrass, deep-germinating seedlings of cocklebur and sandbur or established perennials such as Bermudagrass. Follow normal TRIFLURALIN 4EC procedures for soil preparation and incorporation. Apply the tank mix combination to the flat soil surface before disking.

Broadcast Rates Per Acre:

TRIFLURALIN 4EC	Caparol 80W	Caparol 4L
Coarse soils* 1 pt.	1 1/2-2 pounds	2.4-3.2 pts.
Medium soils 1 1/2 pts.	2 1/2 pounds	4 pts.
Fine soils 2 pts.	2 1/2 pounds	4 pts.

*Do not use on sands and loamy sands. For band applications use proportionately less. TRIFLURALIN 4EC is not recommended for use on muck soils. Use less than 2 lbs. Caparol 80W or 3.2 pts. Caparol 4L only in AZ and CA.

Mixing Directions—Carefully follow the procedures on the Caparol 80W label for making a slurry and adding it to a partially filled tank of water or follow the mixing procedure on the Caparol 4L label for adding it to a partially filled tank of water. After the Caparol is thoroughly mixed with the partially filled tank of water, add the TRIFLURALIN 4EC and continue filling. Agitate during the filling and spraying operation.

Avoid leaving the spray mixture in the tank without constant agitation. If by-pass agitation is used, it should terminate at the bottom of the tank to minimize foaming.

Incorporation Directions—The first incorporation of TRIFLURALIN 4EC/Caparol should be immediately following application. A second incorporation is required with most equipment. (See incorporation equipment section for further instructions.)

Precautions: Do not apply more than the recommended rate for your soil texture.

The combination of TRIFLURALIN 4EC/Caparol should not be used under the following conditions because crop injury may result: in the cut areas of newly leveled fields, in areas of excess salt, and where flooding over the beds is likely to happen.

Do not plant cotton in tractor wheel depressions or crop injury may result. On much-planted cotton, water back only after cotton seedlings get well established.

Crop Rotations—Cabbage, okra, onions and peas may be planted in the fall after a spring application of TRIFLURALIN 4EC plus Caparol.

Winter barley, winter rye and winter wheat can be planted in the fall also, if they are plowed down and not used for food or feed. Refer to the Caparol label for directions, cautions and precautions.

COTTON—TRIFLURALIN 4EC/Cotoran tank mix except in Arizona and California:

The TRIFLURALIN 4EC/Cotoran tank mix effectively controls all the annual grasses and broadleaf weeds listed on the TRIFLURALIN 4EC label plus many additional annual grasses and broadleaf weeds (see Weeds Controlled section). Follow normal TRIFLURALIN 4EC procedures for soil preparation. Apply TRIFLURALIN 4EC/Cotoran tank mix in 15 to 40 gallons of clean water per acre using any properly calibrated low pressure herbicide sprayer that will apply the spray uniformly.

Broadcast Rates Per Acre:

TRIFLURALIN 4EC	Cotoran 80W
Coarse soils 1pt.	1 1/4 pounds
Medium soils 1 1/2 pts.	2 pounds
Fine soils 2 pts.	2 1/2 pounds

Mixing Directions—Carefully follow the procedures on the Cotoran 80W label for making a Cotoran slurry and adding it to a partially filled tank of water. After the Cotoran is thoroughly mixed with the partially filled tank of water, add the TRIFLURALIN 4EC and continue filling. Agitate continuously throughout the filling and application operations. Follow normal TRIFLURALIN 4EC incorporation procedures. Do not leave spray mixture in tank without constant agitation. If by-pass agitation is used, it should terminate at the bottom of the tank to minimize foaming.

Precautions: Do not use the tank mix in Arizona and California. Do not plant crops other than cotton on the treated land within 6 months after the application of TRIFLURALIN 4EC plus Cotoran or injury may occur.

West Texas Only: Do not use the tank mix of TRIFLURALIN 4EC plus Cotoran on sandy, loamy sand or fine sandy loam soils. Do not use on cotton planted in furrows.

Arkansas, Louisiana, and Mississippi Only: Use 1 pound Cotoran 80W in tank mix with TRIFLURALIN 4EC on sandy loam soils low in organic matter.

New Mexico: Cotton can be planted the next spring. Do not plant treated areas to crops other than cotton on treated land until 1 year after last application. Do not use on sandy or coarse textured soil of less than 1% organic matter.

Do not feed foliage from treated cotton plants or gin trash to livestock. The tank mix of TRIFLURALIN 4EC plus Cotoran is not recommended to be applied in liquid fertilizer.

Refer to the Cotoran label for cautions, precautions, and instructions.

Cotoran overlay: Refer to the Cotoran label for cautions, precautions and instructions.

COTTON—Preplant Incorporated TRIFLURALIN 4EC and surface applied, preemergence Diuron 80 for weed control in cotton grown east of the Mississippi River plus Arkansas, Southeastern Missouri, Louisiana, and Eastern Texas:

Preplant soil incorporated applications of TRIFLURALIN 4EC (see above for rates) may be followed by a surface applied, post-plant, pre-emergence application of Diuron 80. This combination effectively controls all the weeds controlled by TRIFLURALIN 4EC plus many additional weeds (see weeds controlled section). Apply Diuron 80 at 0.6 to 1.5 pounds per broadcast acre to the soil surface after planting but prior to crop emergence. The higher rates are used on heavier soil types. Do not use Diuron 80 on light (sandy or low organic) soils. Do not use on heavy clay soils above 10 percent organic matter. Consult the Diuron 80 label for additional instructions, cautions and precautions.

CUCURBITS—Cantaloupes, Cucumbers and Watermelons—Pre-Plant, emerged in Texas only:

Apply TRIFLURALIN 4EC as a directed spray to the soil between the rows and beneath plants which are in the 3 to 4 true-leaf stage. See incorporation machinery to throw treated soil toward plants in the row. Care should be taken that incorporation machinery does not damage the plants.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/4-1 1/2 pts.	1 1/4 to 1 1/2 pts.
Fine soils	1 1/2 pts.	1 1/2 pts.

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Soils with 2 to 5% organic matter 1 1/2 pts. 1 1/2 pts.
 Soils with 5.1 to 10% organic matter 2 pts. 2 pts.

FLAX (Fall Application Only)

Trifluralin 4EC should be applied and incorporated in the fall for weed control in spring seeded flax. Incorporate once within 24 hours after application. The second incorporation may be completed in the spring prior to planting.

Instructions for Flax:

Incorporation operations or other tillage practices performed in the spring prior to seeding should be relatively shallow to maintain a firm seedbed. The seedbed should be packed prior to seeding. Seeding should be done with a press drill or hoe drill. Seed into moist seedbed and plant no more than 1 1/2 inches deep.

Seeding should not be completed until soil is sufficiently warm. Refer to the "Special Precautions" section of this label for information on growing conditions that can lead to crop injury or yield reduction.

Broadcast Application Rate/Acre:

Coarse Soils 1 pt.
 Medium Soils 1 1/2 pts.
 Fine Soils 2 pts.

FORAGE LEGUMES

Used as Cover Crops or in the Acreage Conservation Reserve Program Apply Trifluralin 4EC as a preplant soil incorporated treatment

Broadcast Application Rate/Acre:

Coarse 1 pt.
 Medium 1-1 1/2 pts.
 Fine 1 1/2 pts.

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

Precautions: Follow the most severe grazing restrictions imposed by the USDA Conservation Use Program when used under the Acreage Conservation Reserve 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 its use; however, reduced weed competition will allow establishment of a quality stand.

GREENS—Turnip Greens Grown for Processing and All Collard, Kale and Mustard Greens:

Apply and incorporate TRIFLURALIN 4EC before planting at a broadcast rate per acre of 1 pint on coarse and medium soils and 1 1/2 pints on fine soils.

MUSTARD—Grown For Seed In Minnesota and North Dakota Only:

Apply and incorporate TRIFLURALIN 4EC before planting at a broadcast rate per acre of 1 pint on coarse and medium soils and 1 1/2 pints on fine soils.

HOPS: (Western U.S. Only.)

Apply and incorporate TRIFLURALIN 4EC while the crop is dormant at a broadcast rate per acre of 1 pint on coarse soils; 1 1/4 to 1 1/2 pints on medium soils and 1 1/2 pints on fine soils and soils with 2 to 10% organic matter.

MINT—Established Peppermint and Spearmint: (Western U.S. Only.)

Apply TRIFLURALIN 4EC at a rate per acre of 1 pint on coarse soils; 1 1/4 pints on medium soils; and 1 1/2 pints on fine soils. Use incorporation equipment that will insure thorough soil mixing with a minimum of damage to the established, dormant mint.

OKRA:

Apply and incorporate TRIFLURALIN 4EC before planting.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4-1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.

Soils with 2 to 5% organic matter 1 1/2 pts. 1 1/2 pts.
 Soils with 5.1 to 10% organic matter 2 pts. 2 pts.

PEANUTS—Spanish Peanuts Grown In Texas and Oklahoma Only:

Apply and incorporate TRIFLURALIN 4EC before planting, at planting or immediately after planting at a broadcast rate per acre of 1 pint on coarse soils. When incorporating after planting, care must be taken not to disturb the seed.

PEAS—Dry (Western U.S. Only.)

Apply and incorporate TRIFLURALIN 4EC before planting at a broadcast rate per acre of 1 pint on coarse and medium soils and 1 1/2 pints on fine soils.

PEAS—English:

Apply and incorporate TRIFLURALIN 4EC before planting at a broadcast rate per acre of 1 pint on coarse and medium soils and 1 1/2 pints on fine soils.

PEAS—Fall Application In Dry Peas and English Peas Grown In Idaho, Oregon and Washington Only:

For dry peas grown in Idaho, Oregon and Washington: Apply and incorporate TRIFLURALIN 4EC at a broadcast rate per acre of 1 pint on coarse soils; 1 1/4 to 1 1/2 pints on medium soils; and 1 1/2 pints on fine soils.

PEAS—Southern Peas:

Apply and incorporate TRIFLURALIN 4EC before planting

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4-1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.

Soils with 2 to 5% organic matter 1 1/2 pts. 1 1/2 pts.
 Soils with 5.1 to 10% organic matter 2 pts. 2 pts.

PEAS—TRIFLURALIN 4EC and Far-Go tank mix for weed control in peas grown in Idaho, Oregon, and Washington:

The tank mix combination of TRIFLURALIN 4EC plus Far-Go will provide control of wild oats in addition to other annual grasses and broadleaf weeds controlled by TRIFLURALIN 4EC.

Application Rates—Broadcast 3/4 pint of TRIFLURALIN 4EC on coarser textured soils, 1 pint of TRIFLURALIN 4EC on fine soils. Use 1 1/4 quarts of Far-Go for all soil textures.

Incorporation Directions—Apply the TRIFLURALIN 4EC plus Far-Go tank mix and incorporate from 3 weeks before seeding up to immediately before seeding. TRIFLURALIN 4EC and Far-Go must be thoroughly incorporated into the top 2 inches of the soil by 2 incorporations. The first incorporation should be made as soon as possible on the day of application. The second incorporation should be made as soon as possible but before seeding. Incorporate with a disc-type implement set to cut 4 inches deep and operate in 2 different directions at 4 to 8 mph or with a field cultivator set to cut 3 to 4 inches deep and operate at 5 mph or more. Shallow incorporation with implements set to cut less than 2 inches may result in erratic weed control.

NOTE: Do not apply to lentils.

Lack of crinkling and delayed maturity of peas may occur, particularly on clay points in the northwest; but this is usually more than offset by a reduction of wild oats. Do not graze livestock on treated crops. Refer to the cautions, precautions and directions on the Far-Go label.

PEPPERS—Transplants Only:

Apply and incorporate TRIFLURALIN 4EC before transplanting. Do not apply after transplanting.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4-1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.

Soils with 2 to 5% organic matter 1 1/2 pts. 1 1/2 pts.
 Soils with 5.1 to 10% organic matter 2 pts. 2 pts.

POTATOES—Not recommended for use in the state of Maine:

Apply TRIFLURALIN 4EC after planting, up to or immediately following dragoff in the Eastern U.S. or after planting, before emergence on all soil textures, or after the potato plants have fully emerged on coarse and medium soils in the Western U.S. TRIFLURALIN 4EC is not recommended on muck soils.

Set incorporation equipment so that the bed and furrow will be uniformly covered with a layer of TRIFLURALIN 4EC. If the layer of TRIFLURALIN 4EC treated soil is not uniform and the herbicide is concentrated over the bed, potato emergence may be retarded and stem brittleness can occur. Care should be taken so that incorporation machinery does not damage potato seed pieces or elongating sprouts. Cultivation prior to emergence may result in mechanical injury to the elongated potato sprouts.

When applying and incorporating TRIFLURALIN 4EC after potato plants have fully emerged, do not completely cover the foliage with treated soil. Likewise do not completely cover foliage at subsequent cultivations.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pt.	1 1/4-1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.

Soils with 2 to 5% organic matter 1 1/2 pts. 1 1/2-2 pts.
 Soils with 5.1 to 10% organic matter 2 pts. 2 pts.

POTATOES—Split Application In Idaho, Oregon and Washington Only:

On all soils apply and incorporate 3/4 pint of TRIFLURALIN 4EC before planting and 3/4 pint after planting when potato plants have fully emerged. Do not apply to soils containing 2% or more organic matter. Follow incorporation directions listed above for application to potatoes after planting.

POTATOES—TRIFLURALIN 4EC/Eptam/EPTC Tank Mix for Potatoes Grown In Kansas, Minnesota, Nebraska, North Dakota, Oklahoma, South Dakota and Texas only: (Eastern U.S. Only.)

The TRIFLURALIN 4EC/Eptam/EPTC tank-mix effectively controls ten-bit, black nightshade and nutsedge (nutgrass) in addition to all of the annual grasses and broadleaf weeds listed on the TRIFLURALIN 4EC label. Follow normal TRIFLURALIN 4EC procedures for soil preparation.

The TRIFLURALIN 4EC/Eptam/EPTC tank-mix may be applied after planting but prior to crop emergence. In areas where potatoes are normally dragged-off, the TRIFLURALIN 4EC/Eptam/EPTC tank-mix should be applied and incorporated up to or immediately following dragoff at a broadcast rate per acre of 1 pint of TRIFLURALIN 4EC and 3/4 pints of Eptam/EPTC 7E on all soil textures or up to the label recommended rate for each herbicide depending on soil texture and weed problem. See details on Eptam/EPTC label. TRIFLURALIN 4EC at 1 pint per acre, alone or in combination, should not be used on soils containing 5% or more organic matter. Incorporate immediately after application. Follow normal TRIFLURALIN 4EC procedures for cultivation.

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Caution: Read the Eptam/EPTC label before using. Observe all cautions and limitations on labeling of all products used in mixtures. Do not graze or feed forage to livestock from fields treated with the TRIFLURALIN 4EC/Eptam/EPTC tank-mix.

POTATOES—TRIFLURALIN 4EC/Eptam/EPTC Tank-mix: (Western U.S. Only.)

Application After Planting—The TRIFLURALIN 4EC/Eptam/EPTC tank-mix effectively controls henbit, nightshade and nutsedge (nutgrass) in addition to all of the annual grasses and broadleaf weeds listed on the TRIFLURALIN 4EC label. Follow normal procedures for soil preparation. The TRIFLURALIN 4EC/Eptam/EPTC tank-mix may be applied after planting, up to or immediately following dragoff at a broadcast rate per acre of 1 pint of TRIFLURALIN 4EC and 1 3/4 pints of Eptam/EPTC 7E on all soil textures or up to the label recommended rate for each herbicide depending on soil texture and weed problem. See details on Eptam/EPTC label. TRIFLURALIN 4EC at 1 pint per acre, alone or in combination, should not be used on soils containing 5% or more organic matter. Incorporate immediately after application. Follow normal TRIFLURALIN 4EC procedures for cultivation.

Application Before Planting in Washington, Idaho, and Oregon Only—TRIFLURALIN 4EC/Eptam/EPTC may be also applied before planting at a broadcast rate of 3/4 pint of TRIFLURALIN 4EC and 3 1/2 pints of Eptam/EPTC 7E on all soil textures and incorporated immediately.

Caution: Do not use this tank-mix both before and after planting in the same season. Read the Eptam/EPTC label before using. Observe all cautions and limitations on labeling of all products used in mixtures. Do not graze or feed forage to livestock from fields treated with the TRIFLURALIN 4EC/Eptam/EPTC tank-mix.

RADISH

Trifluralin 4EC should be applied as a preplant soil incorporated treatment.

Broadcast Application Rate/Acre:

Coarse soils	1 pt.
Medium soils	1 1/2 pts.
Fine soils	1 1/2 pts.

RAPESEED (CANOLA)

Trifluralin 4EC may be applied and incorporated in the spring before planting or in fall. See "Soil Preparation" in the "Fall Application" section of this label.

Broadcast Application Rate/Acre:

Coarse soils	1 pt.
Medium soils	1 1/2 pts.
Fine soils	2 pts.

Precautions: Do not apply this product to rapeseed (canola) grown in the state of Alaska.

SAFFLOWER:

Apply and incorporate TRIFLURALIN 4EC before planting.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4-1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.
Soils with 2 to 5% organic matter	1 1/2-2 pts.	1 1/2-2 pts.
Soils with 5.1 to 10% organic matter	2 pts.	2 pts.
Soils with 10.1 to 20% organic matter		2-3 pts.

SAFFLOWER—FALL APPLICATION:

For safflower grown in Arizona, California, Idaho, Montana, Nevada, Oregon, Utah, Washington and Wyoming. Apply and incorporate TRIFLURALIN 4EC at a broadcast rate per acre of 1 1/2 pints on coarse soils; 2 pints on medium soils; and 2 1/2 pints on fine soils.

SOYBEANS—Preplant Incorporated:

Apply and incorporate TRIFLURALIN 4EC before planting. Do not plant soybeans deeper than 2 inches. Follow recommended soil preparation, application and incorporation procedures.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4-1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.
Soils with 2 to 5% organic matter	1 1/2 pts.	1 1/2-2 pts.
Soils with 5.1 to 10% organic matter	2-2 1/2 pts.*	2 pts.

* Except charcoal soils in Arkansas, Louisiana and Mississippi. See below.

SOYBEANS—Soils Containing Charcoal in Arkansas, Louisiana and Mississippi:

Newly cleared land often contains high organic matter (4 to 10%) and

charcoal which result from burning debris. This charcoal and/or organic matter tends to tie up TRIFLURALIN 4EC and reduce its weed control activity. Higher rates of TRIFLURALIN 4EC are therefore necessary for satisfactory weed control. Increased rates can cause crop injury if charcoal or a high percentage of organic matter is not present to tie up some of the TRIFLURALIN 4EC. In the actual windrow or burn row, where a high level of charcoal is present, poor weed control may result even with an increased rate of TRIFLURALIN 4EC.

Apply and incorporate at the following broadcast rates per acre:

Coarse soils	1 1/2 pts.
Medium soils	2 1/4 pts.
Fine soils	3 pts.

SOYBEANS—Fall application:

For soybeans grown in Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri, North Carolina, Oklahoma, South Carolina, Tennessee and Texas: Apply and incorporate TRIFLURALIN 4EC at a broadcast rate per acre of 2 pints on coarse and medium soils and 2 1/2 pints on fine soils. For soybeans grown in the Eastern United States other than those states listed above: Apply and incorporate TRIFLURALIN 4EC at a broadcast rate per acre of 1 pint on coarse soils; 1 1/2 pints on medium soils; 2 pints on fine soils; 1 1/2 pints on coarse soils with 2 to 5% organic matter; and 2 to 2 1/2 pints on soils with 5.1 to 10% organic matter.

SOYBEANS—Fall panicum and Texas panicum control:

For the control of fall panicum and Texas panicum in the states of Alabama, Florida, Georgia, North Carolina, South Carolina and Virginia, apply TRIFLURALIN 4EC at the broadcast rate of 2 pints per acre on both coarse and medium soils. Plant soybeans after early season adverse weather conditions have passed. Do not plant soybeans deeper than 2 inches. Crop injury in the form of delayed growth or reduced yields may occur under adverse cool, wet weather conditions when TRIFLURALIN 4EC is used according to these special recommendations.

SOYBEANS—More Complete Control of Pigweed and Seedling Johnsongrass in Soybeans Grown in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, southeastern Missouri, North Carolina, South Carolina, Tennessee and southern Virginia:

For more complete control of pigweed and seedling johnsongrass, TRIFLURALIN 4EC may be applied at a broadcast rate per acre of from 1 to 1 1/2 pints on coarse soils, from 1 1/2 to 2 pints on medium soils and 2 pints on fine soils except in the state of Louisiana where 3 pints per acre are recommended on fine soils.

Precaution: Plant soybeans after early season adverse weather conditions have passed. Do not plant soybeans deeper than 2 inches. Crop injury in the form of delayed growth may occur under adverse cool, wet weather conditions early in the season when used according to these recommendations.

SOYBEANS—More Complete Weed and Grass Control in Certain Counties Along the Texas Gulf Coast:

For more complete control of those weeds and grasses listed in the TRIFLURALIN 4EC label in the Texas Gulf Coast Counties of Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller and Wharton, TRIFLURALIN 4EC may be applied up to 2 weeks before planting at a broadcast rate of 1 1/2 pints on coarse soils, 2 pints on medium soils and 3 pints on fine soils.

Precaution: Plant soybeans after early season adverse weather conditions have passed. Do not plant soybeans deeper than 2 inches. Crop injury in the form of delayed growth may occur under adverse cool, wet weather conditions early in the season when used according to these recommendations.

SOYBEANS, RED RICE CONTROL—Arkansas, Louisiana, Mississippi and Texas only:

Suppression or partial control of red rice in soybeans can be obtained when TRIFLURALIN 4EC is applied as directed at double the normal rate the first year (not to exceed 4 pints per acre) and at the normal rate the second year. Follow normal TRIFLURALIN 4EC directions for soil preparation and soil incorporation.

Application: Year 1

Apply and incorporate TRIFLURALIN 4EC the first year any time in the spring before planting at the following broadcast rates per acre:

Coarse soils	2 pts.
Medium soils	3 pts.
Fine soils	3 pts.

Coarse soils with 2 to 5% organic matter	3 pts.
Soils with 5.1 to 10% organic matter	4 pts.

Application: Year 2

Apply TRIFLURALIN 4EC the second year at the following normal label broadcast rates per acre:

Coarse soils	1 pt.
Medium soils	1 1/2 pts.
Fine soils	2 pts.

Coarse soils with 2 to 5% organic matter	1 1/2 pts.
Soils with 5.1 to 10% organic matter	2-2 1/2 pts.

If a combination of high organic matter (4 to 10%) and charcoal are

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present in the soil, apply TRIFLURALIN 4EC the second year at the following rates labeled for charcoal soils in Arkansas, Louisiana and Mississippi:

Coarse soils	1 1/2 pts. per acre
Medium soils	2 1/2 pts.
Fine soils	3 pts.

*Newly cleared land often contains high organic matter (4 to 10%) and charcoal which result from burning debris. This charcoal and/or organic matter tends to tie up TRIFLURALIN 4EC and reduce its weed control activity. Higher rates are therefore necessary for satisfactory weed control. Increased rates can cause crop injury if charcoal or a high percentage of organic matter is not present to tie up some of the TRIFLURALIN 4EC. In the actual windrow or burn row, where a high level of charcoal is present, poor weed control may result even with an increased rate.

Crop Rotation

The program for red rice control in soybeans is a 2-year program. Use the rates listed for first year application and plant soybeans. The second year use the normal TRIFLURALIN 4EC rates listed for your soil type and charcoal level and plant only those crops for which TRIFLURALIN 4EC has been registered as a preplant treatment or injury may result. Do not plant rice the second year. Rice may be planted the third year.

Precautions

Plant soybeans after early adverse weather conditions have passed. Do not plant soybeans deeper than 2 inches. Crop injury may occur under adverse cool, wet weather conditions early in the season when TRIFLURALIN 4EC is used according to these double-rate recommendations.

SOYBEANS—Rhizome Johnsongrass Control: (Eastern United States and the State of Texas)

Commercially acceptable control of rhizome Johnsongrass can be obtained with a double-rate TRIFLURALIN 4EC program when applied for 2 years in a row.

Soil Preparation—Proper preparation of the soil before application is very important for satisfactory results. Use a chisel plow or similar implement to bring rhizomes to the top of the soil. Then follow with a disc before application to cut the rhizomes into small (2 to 3-inch) pieces. This should also destroy any emerged Johnsongrass.

Application—Choose the one application program that best fits your cultural practices.

Spring Application—Apply TRIFLURALIN 4EC any time in the spring before planting for 2 years in a row at a broadcast rate per acre of 2 pints on coarse soils; 3 pints on medium soils; 4 pints on fine soils; 3 pints on coarse soils with 2 to 5% organic matter; and 4 pints on soils with 5.1 to 10% organic matter, OR

Fall Application—Apply TRIFLURALIN 4EC between October 15 and December 31 for 2 years in a row at the same rates as a spring application for the control of rhizome Johnsongrass, OR

Split Application—Apply as directed under both spring and fall applications for 2 years in a row using the following broadcast rates per acre:

	Spring	and	Fall
Coarse soils	1 pt.		1 pt.
Medium soils	1 1/2 pts.		1 1/2 pts.
Fine soils	2 pts.		2 pts.

Coarse soils with 2 to 5%

organic matter 1 1/2 pts. 1 1/2 pts.

Soils with 5.1 to 10%

organic matter 2 pts. 2 pts.

Incorporation—Deep incorporation is essential to good rhizome Johnsongrass control. Incorporate TRIFLURALIN 4EC thoroughly with a disc set to cut 4 to 6 inches deep and operate in 2 different directions at 4 to 6 mph.

Cultivation—Some Johnsongrass plants will escape. Timely cultivations during the crop season are necessary to obtain commercially acceptable control. Commercially acceptable control will not be obtained with only 1 year of double-rate TRIFLURALIN 4EC use.

Precautions: Plant soybeans after early season adverse weather conditions have passed. Do not plant soybeans deeper than 2 inches. Crop injury in the form of delayed growth may occur under adverse cool, wet weather conditions early in the season when used according to these recommendations.

In the season following either the 1 or 2-year treatments, plant only those crops for which TRIFLURALIN 4EC has been registered as a preplant treatment or injury may result.

SOYBEANS—Wild Cane Control:

Wild Cane (Shattercane) can germinate from greater soil depth than most other weed seeds. Several "flushes" or germinating times are common in one season. Commercially acceptable control of wild cane can be obtained with increased rates of TRIFLURALIN 4EC.

Land Preparation—Work your land to destroy existing grasses and weeds. Thoroughly mix crop residues into the soil to a depth of 4 to 6 inches.

Application—Apply TRIFLURALIN 4EC before planting at a broadcast rate per acre of 1 pint on coarse soils; 2 pints on medium soils; and 2 1/2 pints on fine soils.

Incorporation—Deep incorporation is essential to good wild cane control. Incorporate (mix) TRIFLURALIN 4EC thoroughly with a disc only set to cut 4 to 6 inches deep and operate in 2 different directions at 4 to 6 mph.

Cultivation—Cultivations during the crop season will also contribute to control.

Precaution: Plant soybeans after early season adverse weather conditions have passed. Do not plant soybeans deeper than 2 inches. Crop injury in the form of delayed growth may occur under adverse cool, wet weather conditions early in the season when used according to these recommendations.

SOYBEANS—TRIFLURALIN 4EC/Sencor or TRIFLURALIN 4EC/Lexone Tank-Mix—Preplant Incorporated:

The TRIFLURALIN 4EC/Sencor or TRIFLURALIN 4EC/Lexone tank-mix effectively controls additional weeds than controlled by TRIFLURALIN 4EC alone (see Weeds Controlled section). Follow normal procedures for soil preparation. The TRIFLURALIN 4EC/Sencor or TRIFLURALIN 4EC/Lexone tank-mix should be applied from 2 weeks before planting up to planting in 10 to 40 gallons of water with any low-pressure herbicide sprayer equipped with herbicide tips and screens no finer than 50 mesh in nozzle and in-line strainers.

Broadcast Rates Per acre:

	TRIFLURALIN 4EC	Lexone DF or Sencor DF
Coarse soils	1 pt.	1/3 pound
Medium soils	1 1/2 pts.	1/2 pound
Fine soils	2 pts.	2/3 pound

	TRIFLURALIN 4EC	Lexone 4L or Sencor 4L
Coarse soils	1 pt.	1/2 pt.
Medium soils	1 1/2 pts.	3/4 pt.
Fine soils	2 pts.	1 pt.

Important: Refer to Sencor and Lexone labels for soil type/rate details. Do not plant any crop other than soybeans within 4 months after treatment. Follow normal TRIFLURALIN 4EC procedures for incorporation and cultivation.

NOTE: In those areas of the Mid-South where cocklebur is a serious problem, an overlay of Sencor or Lexone may be preferred to the TRIFLURALIN 4EC/Sencor or TRIFLURALIN 4EC/Lexone tank-mix.

Special Precaution: Applied according to directions and under normal growing conditions, the TRIFLURALIN 4EC/Sencor or TRIFLURALIN 4EC/Lexone tank-mix will not harm the treated crop. Over-application may result in crop injury or soil residue. Uneven application or improper soil incorporation of the TRIFLURALIN 4EC/Sencor or TRIFLURALIN 4EC/Lexone tank-mix can result in erratic weed control or crop injury.

Seeding disease, cold weather, deep planting, excessive moisture, soil pH over 7.5, high salt concentration, or drought may weaken crop seedlings and increase possibility of damage from the TRIFLURALIN 4EC/Sencor or TRIFLURALIN 4EC/Lexone tank-mix. Under these conditions, delayed crop development or reduced yields may result. Warning: Observe all warnings and limitations on labeling of all products used in mixtures. Sencor may be harmful if swallowed or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing of dust or spray mist. Wash clothing thoroughly with soap and hot water before reuse. Do not contaminate feed or food. Keep out of reach of children.

Do not use the foliage from soybeans treated with the TRIFLURALIN 4EC/Sencor or TRIFLURALIN 4EC/Lexone tank-mix for feed or forage. Do not contaminate any body of water not apply to any area not specified on this label. Do not allow sprays to drift onto adjacent desirable plants.

SOYBEANS—TRIFLURALIN 4EC pre-plant followed by Sencor or Lexone as an overlay treatment for weed control in soybeans:

TRIFLURALIN 4EC effectively controls certain annual grasses and broadleaf weeds. See Sencor or Lexone label for additional weeds controlled. Apply TRIFLURALIN 4EC as a preplant incorporated herbicide.

As a separate operation, make a single application of Sencor or Lexone as either a band or broadcast spray during planting, or as a separate operation after planting, but before the soybeans emerge. Do not spray Sencor or Lexone over the top of emerged soybeans or injury may result.

Use Directions—Follow directions on the TRIFLURALIN 4EC, Sencor or Lexone labels for specific instructions regarding each chemical.

Special Precautions—Do not use Lexone or Sencor on Tracy, Sandnes, Allona, Vansoy or Coker 102 soybeans as these varieties are sensitive to Lexone or Sencor and injury to the crop may result. See current Lexone or Sencor label for complete information on sensitive varieties.

Do not use treated vines for feed or forage.

Seed must be planted at least 1 1/2 inches below the soil surface, but not more than 2 inches before a Sencor or Lexone application.

Do not replant areas treated with Sencor or Lexone to any crop other than soybeans within 4 months after treatment.

Injury to soybeans may occur if Lexone or Sencor is used on soils having a calcareous surface or pH of 7.5 or higher, or if used in conjunction with soil applied organic phosphate pesticides.

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Important: Read the TRIFLURALIN 4EC, Sencor or Loxone labels carefully before using. Note all warnings, precautions and special precautions.

Broadcast Rates Per Acre*	TRIFLURALIN 4EC—Preplant	Loxone or Sencor DF or 4L—Postplant/Preemergence			
		Loxone DF	Sencor DF	Loxone 4L	Sencor 4L
Coarse	1 pt.	1/2 lb.	1/2-2/3 lb.	3/4 pt.	3/4-1 pt.
Medium	1 1/2 pts.	1/2-2/3 lb.	1/2-1 lb.	1 1/2-1 3/4 pts.	1 1/2-1 3/4 pts.
Fine	2 pts.	1/2-2/3 lb.	2/3-1 1/8 lbs.	3/4-1 1/4 pts.	1-1 1/4 pts.
Mississippi Delta Only	Rate according to soil texture	2/3-1 lb.	1-1 1/8 lbs.	1-1 1/2	1 1/2-2 pts.

*See Loxone or Sencor use label for complete directions and limitations, including exact rates according to soil organic matter and other factors.

SOYBEANS—TRIFLURALIN 4EC/Amiben:

Amiben may be applied in a band over the soybean row at planting time in fields where TRIFLURALIN 4EC has been applied as a preplant soil incorporated herbicide. (See Weed Control section for weeds controlled by this treatment.) Or Amiben may be applied several days prior to planting as a broadcast tank-mix with TRIFLURALIN 4EC. The tank mixture should be used as a spring preplant soil incorporated treatment. The tank-mix improves broadleaf weed, control of species such as smartweed, velvetleaf, and ragweed. For broadcast treatments, incorporate chemicals immediately and thoroughly to an approximate depth of 2 inches with a disc, field cultivator or similar tool set to cut a depth of 4 to 6 inches. Apply Amiben at a rate of 1 gallon (2.0 pounds acid equivalent) per broadcast acre. Apply TRIFLURALIN 4EC at a rate of 1 1/2 pints for medium soils and 2 pints for fine soils. Do not use on muck or charcoal soils. Read and observe all directions and cautions on the Amiben label.

SUGAR BEETS:

Apply TRIFLURALIN 4EC as a broadcast, otop spray when plants are between 2 and 6 inches tall. Exposed beet roots should be covered with soil before application to reduce the possibility of girdling. Set incorporation machinery to throw treated soil toward the plants in the row. Care should be taken that incorporation machinery does not damage the sugar beet taproot.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4-1 1/2 pts.
Fine soils	1 1/2 pts.	1 1/2 pts.

SUGAR BEETS—Incorporation with a Tine-Tooth Harrow in the States of California, Colorado, Idaho, Kansas, Montana, Nebraska, Oregon, Texas, Utah, Washington and Wyoming Only:

A properly operated tine-tooth harrow (Flexline or Melroe) can provide adequate incorporation of TRIFLURALIN 4EC for effective weed control in sugar beets. Operate the tine-tooth harrow 2 times over the field in opposite directions at a speed of 3 to 6 mph and set the harrow to cut 1 to 2 inches deep. Care should be taken to insure that the tine-tooth harrow does not damage the sugar beet taproot.

SUGARCANE—Plant Cane Only:

Apply and incorporate Trifluralin 4EC twice a year at a broadcast rate per acre of 2 to 4 pints for all soil textures. Make the first application in the fall on firmly packed beds immediately after the seed pieces are planted. Make the second application in the spring before or shortly after the cane emerges. Loosen rain-packed beds 2 to 3 inches deep before the spring application. Care should be taken so that incorporation machinery does not damage the seed pieces or emerging shoots.

SUGARCANE—Applications up to Layby for Plant Cane or Ratoon Cane Grown in Louisiana or Texas only:

Apply and incorporate TRIFLURALIN 4EC at a broadcast rate per acre of 2 to 4 pints for all soil textures. Make the TRIFLURALIN 4EC application in the spring from before or shortly after the cane emerges up to layby. Make the TRIFLURALIN 4EC application after the beds have been shaved or false shaved. Loosen rain-packed beds 2 to 3 inches deep before application. Care should be taken so that incorporation machinery does not damage seed pieces or emerging shoots. A rolling cultivator or bed chopper may be used to incorporate TRIFLURALIN 4EC layby applications in sugarcane on all soil textures. Follow normal incorporation directions for the rolling cultivator. Set bed chopper to cut 3 to 4 inches deep and operate 2 times at 4 to 6 mph.

SUGARCANE—Roughgrass Control in Louisiana only:

Apply and incorporate TRIFLURALIN 4EC on either plant or ratoon cane at a broadcast rate per acre of 4 pints for all soil textures. Make the

TRIFLURALIN 4EC application in the spring from before or shortly after the cane emerges up to layby. Make the TRIFLURALIN 4EC application after the beds have been shaved or false shaved. Loosen rain-packed beds 2 to 3 inches deep before application. Care should be taken so that incorporation machinery does not damage seed pieces or emerging shoots. A rolling cultivator or bed chopper may be used to incorporate TRIFLURALIN 4EC layby applications in sugarcane on all soil textures. Follow normal incorporation directions for the rolling cultivator. Set bed chopper to cut 3 to 4 inches deep and operate 2 times at 4 to 6 mph.

SUGARCANE—For control of most annual grasses, including guineagrass (Post-Plant in Hawaii only):

Surface apply Trifluralin 4EC after planting (for plant cane) or after harvesting (for ratoon cane), at a broadcast rate per acre of 6 to 8 pints for all soil textures. Apply Trifluralin 4EC from shortly before or after cane emergence until layby. In ratoon cane, excess crop residue should be removed before application. If large amounts of crop residues are present, Trifluralin 4EC will not be effective. Apply just before anticipated rainfall or irrigate immediately after application.

SUNFLOWER:

Apply and incorporate TRIFLURALIN 4EC before planting.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4-1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.

Soils with 2 to 5% organic matter

Soils with 5.1 to 10% organic matter

TOMATOES:

For Direct-seeded tomatoes apply TRIFLURALIN 4EC at blocking or thinning. Apply as a directed spray to the soil between the rows and beneath the plants and incorporate.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4-1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.

Soils with 2 to 5% organic matter

Soils with 5.1 to 10% organic matter

For Transplant tomatoes apply and incorporate TRIFLURALIN 4EC before transplanting. Do not apply after transplanting.

	Eastern U.S.	Western U.S.
Coarse soils	1 pt.	1 pt.
Medium soils	1 1/2 pts.	1 1/4-1 1/2 pts.
Fine soils	2 pts.	1 1/2 pts.

Soils with 2 to 5% organic matter

Soils with 5.1 to 10% organic matter

TREES AND VINEYARDS: (Eastern U.S. only)

For New Plantings of Vineyards, Citrus and Pecan Trees apply and incorporate TRIFLURALIN 4EC before planting at a broadcast rate per acre of 1 pint on coarse soils; 1 1/2 pints on medium soils; 2 pints on fine soils; 1 1/2 pints on fine soils with 2 to 5% organic matter; and 2 pints on soils with 5.1 to 10% organic matter.

For Non-Bearing Established Plantings of Citrus and Pecan Trees and Bearing Plantings of Grapefruit, Lemon, Orange, Pecan, Tangelo, Tangerine Trees apply TRIFLURALIN 4EC at a broadcast rate per acre of 2 to 4 pints for all soil textures. In these established plantings, apply as a directed spray to the soil around the trees and use incorporation methods not injurious to the trees.

NOTE: If crops are planted between the trees, label directions for those specific crops apply to the area which is interplanted. For continued weed control in citrus trees, apply TRIFLURALIN 4EC 2 times a year at an interval of approximately 4 to 6 months

TREES AND VINEYARDS: (Western U.S. only)

For New Plantings of Almond, Apricot, Citrus, Nectarine, Peach, Pecan and Walnut trees apply and incorporate TRIFLURALIN 4EC before planting at a broadcast rate per acre of 1 pint on coarse soils; 1 1/4 to 1 1/2 pints on medium soils; 1 1/2 pints on fine soils; 1 1/2 to 2 pints on soils with 2 to 5% organic matter; and 2 pints on soils with 5.1 to 10% organic matter.

For New Plantings of Vineyards apply and incorporate TRIFLURALIN 4EC before planting at a broadcast rate per acre of 1 to 1 1/2 pints on coarse soils; 1 1/2 to 3 pints on medium soils and 2 to 4 pints on fine soils or soils with 2 to 10% organic matter. Do not use more than 2 pints per acre on heat-treated vines.

For Post-Plant Applications on Bearing or Non-Bearing Established Plantings of Vineyards, Almond, Apricot, Grapefruit, Lemon, Nectarine, Orange, Peach, Pecan, Plum, Prune, Tangelo, Tangerine and Walnut Trees apply TRIFLURALIN 4EC at a broadcast rate per acre of 2 to 4 pints for all soil textures. In these established plantings, apply as a directed spray to the soil around the trees or vines and use incorporation methods not injurious to the trees or vines. Do not apply to vineyards within 60 days of harvest.

NOTE: If crops are planted between the trees or vines, label directions for those specific crops apply to the area which is interplanted. For continued weed control in citrus trees, apply TRIFLURALIN 4EC 2 times a year

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at an interval of approximately 4 to 6 months.

TREES AND VINEYARDS—Rhizome Johnsongrass Control: (Western U.S. Only)

Commercially acceptable control of rhizome Johnsongrass can be obtained with post-plant applications in Bearing and Non-Bearing established plantings of Vineyards, Almond, Apricot, Grapefruit, Lemon, Nectarine, Orange, Peach, Pecan, Tangelo, Tangerines and Walnut trees with a TRIFLURALIN 4EC program when applied for 2 years in a row.

Soil Preparation—Work the soil thoroughly to bring the rhizomes nearer the surface.

Application—Apply TRIFLURALIN 4EC at a broadcast rate per acre of 4 pints on all soil textures each year for 2 years in a row. Do not apply to vineyards within 60 days of harvest.

Incorporation—Incorporate TRIFLURALIN 4EC thoroughly with a disc set locut 4 to 6 inches deep and operate 2 times at 4 to 6 mph.

Cultivation—Some Johnsongrass plants will escape. Timely cultivations are necessary to obtain commercially acceptable control. Commercially acceptable control will not be obtained with only 1 year of TRIFLURALIN 4EC.

Precautions: Do not use the 2-quart rate on new plantings as injury may result. Do not interplant orchards or vineyards with other crops. If TRIFLURALIN 4EC-treated vineyards and orchards are diverted to other crop uses, plant only those crops for which TRIFLURALIN 4EC has been registered as a pre-plant treatment.

TREES AND VINEYARDS—Field Bindweed Control in Vineyards, Almond, Apricot, Grapefruit, Lemon, Nectarine, Orange, Peach, Pecan, Tangelo, Tangerine and Walnut Trees in California only:

For the control of field bindweed in the state of California, apply TRIFLURALIN 4EC at a broadcast rate of 4 pints per acre on all soil textures. TRIFLURALIN 4EC must be applied in the spring with a specially designed spray blade which applies a thin concentrated layer at a soil depth of 4 to 6 inches. The layer of TRIFLURALIN 4EC prevents bindweed shoots from emerging.

Land Preparation—Destroy all weeds and grasses with soil tillage before applying TRIFLURALIN 4EC. This tillage is necessary to prevent trash from interfering with the operation of the spray blade.

Equipment—This operation requires a spray blade capable of running 4 to 6 inches below the surface of the soil. The spray blade should be equipped with nozzles located under the blade and directed so that the TRIFLURALIN 4EC spray will be trapped under the soil which is flowing over the blade as it is pulled through the soil. Use a sufficient number of nozzles with spacing to completely and uniformly apply TRIFLURALIN 4EC underground in a thin horizontal layer.

Application—Apply TRIFLURALIN 4EC in 40 to 80 gallons of water per acre. Operate the spray blade at a depth of 4 to 6 inches.

Precaution: Some soils develop cracks as they dry after rainfall or irrigation. Field bindweed may emerge if the cracks extend through the TRIFLURALIN 4EC layer. Prevent or eliminate cracks by shallow discing or other tillage. Avoid deep tillage which disturbs the subsurface layer. Cultivation or tillage also aids the control of germinating seeds.

WHEAT (SPRING), DURHAM AND BARLEY—Postplant incorporated application for control of foxtail (pigeongrass): Plant 2 to 3 inches deep in a seedbed of good tilth. Make TRIFLURALIN 4EC application after seeding but before crop emergence. Incorporate 1 to 1 1/2 inches deep by use of flex-tine or diamond harrows operated twice in different directions at a minimum speed of 5 mph. Combine herbicide application and first incorporation when possible. Both incorporations must be completed in 24 hours following application.

Apply and incorporate at the following broadcast rates per acre:

- Coarse soils 1 pint
- Medium soils 1 pint
- Fine Soils 1 1/2 pints

WHEAT (SPRING), DURHAM, BARLEY—FALL APPLICATION—

Pre-plant incorporated application for control of foxtail (pigeongrass): This fall application of TRIFLURALIN 4EC is for crops to be planted the following spring. Fields should not have excessive trash and may have been fallowed or pre-tilled according to local cropping practices. Initial incorporation must be made within 24 hours of application. A second incorporation must be made prior to planting to uniformly distribute treated soil and eliminate emerged weeds.

Apply and incorporate at the following broadcast rates per acre:

- Coarse soils 1 pint
- Medium soils 1 pint
- Fine soils 1 1/2 pints

Fall Incorporation Pass—Use any of the following implements:

1. Chisel plow (3 rows of up to 18-inch sweeps on 12-inch centers or less): Sweeps must be staggered so as to turn all soil. Operate at depth of 4 to 5 inches and speed of 4 to 6 mph.
2. Tandem disc: Operate at depth of 3 to 4 inches and speed of 4 to 5 mph.

3. Field cultivator (3 or 4 rows of sweeps with C- or S-shaped shanks spaced 7 inches or less apart): Sweeps must be staggered so as to turn all soil. Operate at depth of 3 to 4 inches and speed of 5 mph minimum.

Spring Incorporation Pass—The disc or field cultivator may be used, but the chisel plow is not recommended. The spring pass implement must operate at a more shallow depth than the fall pass implement.

Planting Depth—Seed should be placed at approximately 2 inches deep. Note: The application described may result in a reduction of stand, however, a slight stand reduction usually does not affect yield.

WHEAT (SPRING), DURHAM AND BARLEY—TRIFLURALIN 4EC/FAR-GO TANK MIX—Postplant incorporated application for control of foxtail (pigeongrass) and wild oat:

Plant 2 to 3 inches deep in a seedbed of good tilth. Make herbicide application after seeding, but prior to crop emergence. Incorporate 1 to 1 1/2 inches deep by use of flex-tine or diamond harrows operated twice in different directions at a minimum speed of 5 mph. Combine herbicide application and first incorporation when possible. If not possible, incorporate immediately after application.

Apply and incorporate at the following broadcast rates per acre:

SOIL TEXTURE	TRIFLURALIN 4EC	Far-Go	
	Barley, Durham, Spring Wheat	Durham, Spring Wheat	Barley
Coarse soils	1 pt.	2 1/2 pts.	2 pts.
Medium soils	1 pt.	2 1/2 pts.	2 pts.
Fine soils	1 1/2 pts.	2 1/2 pts.	2 pts.

Important: Do not overapply as crop injury may result. Read Far-Go label carefully before using.

WHEAT (WINTER)—TRIFLURALIN 4EC for preplant pre-emergence control of cheatgrass and other weeds in winter wheat grown in Washington, Oregon, Idaho, and Montana:

When applied as directed, TRIFLURALIN 4EC will provide effective pre-emergence control of cheatgrass and a number of other annual grasses and broadleaf weeds controlled by TRIFLURALIN 4EC in winter wheat grown in Washington, Oregon, Idaho, and Montana. 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 TRIFLURALIN 4EC.

Broadcast Rates Per Acre:

Apply TRIFLURALIN 4EC any time during a period from 3 weeks up to immediately prior to planting. Broadcast TRIFLURALIN 4EC at the following rates per acre according to soil texture.

Soil Texture	TRIFLURALIN 4EC
Coarse	1 1/2 pts.
Medium	1 1/2 pts.
Fine	2 pts.

Incorporation Directions—Shallowly incorporate TRIFLURALIN 4EC into the soil with a flexible tine-tooth harrow (Flexline, Melroe) set to cut 1 to 2 inches deep. Operate the equipment in 2 different directions at a speed 3 to 6 miles per hour. The first incorporation must be within 24 hours after application. The second incorporation may be done at any time but before planting. Do not till the soil with a disc after the TRIFLURALIN 4EC has been applied and incorporated with a flexible line harrow.

Seeding Directions—Use only a deep furrow or semi-deep furrow drill that will be sure to place the seed below the zone of soil into which TRIFLURALIN 4EC has been incorporated.

Wheat planted in direct contact with TRIFLURALIN 4EC treated soil may suffer crop injury in the form of delay in emergence and development.

WHEAT (WINTER)—Fallow-soil application of TRIFLURALIN 4EC for weed control in winter wheat grown in Washington and Oregon:

Uniformly applied TRIFLURALIN 4EC at the recommended rate and shallowly incorporated into fallow soil as much as four months ahead of planting time, will effectively control cheatgrass and certain annual grasses and broadleaf weeds in winter wheat grown in Washington and Oregon. The growth, development, or yield of winter wheat will not be adversely affected, provided the seed is placed below the zone of soil treated with TRIFLURALIN 4EC with deep or semi-deep furrow-drill.

Broadcast directions and application rates per acre:

Soil Texture	TRIFLURALIN 4EC
Coarse	1 1/2 pts.
Medium	1 1/2 pts.
Fine	2 pts.

Apply any time from May to September prior to the fall planting of winter wheat.

Incorporation—Shallowly incorporate TRIFLURALIN 4EC into the soil with a flexible tine-tooth harrow (also called Flexline or Melroe) set to cut 1 to 2 inches deep and operated at 3 to 6 mph. Thorough incorporation requires two passes of the equipment in different directions over the field. The first pass must be made within 24 hours after application. The second pass may be delayed for several weeks but should be made before seeding. Do not till the soil with a disc after TRIFLURALIN 4EC has been applied with a flexible line harrow.

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Precaution: Use only deep furrow or semi-deep furrow drills. Place seed below the zone of soil into which TRIFLURALIN 4EC has been incorporated. Do not plant wheat directly into the zone of soil treated with TRIFLURALIN 4EC as injury to the crop or a delay in its emergence and development may occur.

WINTER WHEAT — Partial Control or Suppression of Annual Brome Species (Cheatgrass, Downey Brome, Japanese Brome, Hairy Chess) and Jointed Goatgrass in Colorado, Kansas, Nebraska and Wyoming.

Apply Trifluralin 4EC as a preplant incorporated treatment anytime from three (3) weeks before planting up to immediately prior to planting.

Broadcast rates per acre:

Soil Texture	Trifluralin 4EC
Coarse	1-1 1/2 pts.
Medium	1-1 1/2 pts.
Fine	1 1/2 pts.

Use higher rate range where heavy weed populations are anticipated or where medium to high crop residues are present.

Incorporation and Planting Directions

Incorporated with tillage equipment (flexible tine-tooth harrow or springtooth harrow such as Flex-Tyne® or Crust-Buster®) that mixes the soil no more than 1-2 inches deep.

The grain drill (double disc drill or hoe drill) can serve as the incorporation method. Do not use discs, under cutters or heavy field cultivators for incorporating. Incorporate once within 24 hours after application. Use a drill that will place the seed below soil which has been incorporated with Trifluralin 4EC.

One pass incorporation is adequate. Where the grain drill is used as the incorporation tool, mounting a springtooth harrow in front of the drill to aid incorporation can enhance performance. **THE WHEAT MUST BE SEEDED BELOW THE TRIFLURALIN 4EC TREATED SOIL OR CROP INJURY MAY RESULT.** The wheat seed should be placed at least 1 1/2 inches deep.

Precautions:

- Crop injury in the form of delayed emergence and development result from planting wheat in direct contact with treated soil.
- Do not use under cutters, field cultivators, chisel plows or disc as incorporation tools. Any implement that incorporates Trifluralin 4EC deeper than the seeded wheat will contribute to crop injury.
- Use of seeding equipment that does not place the seed below the treated soil layer will result in crop injury.
- Use of Trifluralin in accordance with this label may result in some crop stand reduction but does not normally adversely affect yield.
- Heavy rainfall prior to wheat emergence can cause soil compaction and soil crusting resulting in delayed emergence, stand reduction, stunting and yield loss.

NOTICE OF WARRANTY

PLATTE WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL THEREOF AND IS REASONABLY FIT FOR THE PURPOSES STATED ON SUCH LABEL ONLY WHEN USED IN ACCORDANCE WITH THE DIRECTIONS UNDER NORMAL USE CONDITIONS. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. CROP INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION. ALL OF WHICH ARE BEYOND THE CONTROL OF PLATTE. IN NO CASE SHALL PLATTE BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER. EXCEPT AS EXPRESSLY PROVIDED HEREIN, PLATTE MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND PLATTE'S TOTAL LIABILITY, SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

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150 SO. MAIN STREET FREMONT, NEBRASKA 68025-5697