

# SPECIMEN LABEL

# Agri Star®

GROUP 3 HERBICIDE

# TRIFLURALIN 4EC

A herbicide for the preemergence control of annual grasses and broadleaf weeds in Alfalfa, Almond, Apricot, Asparagus, Barley, Beans – All Dry and Fresh Beans/ Peas, Borage, Broccoli, Brussels Sprouts, Cabbage, Calendula, Carrot, Castor Oil Plant, Cauliflower, Celery, Chicory, Chinese tallowtree, Collard Greens, Corn, Cotton, Cottonwood Trees Grown for Pulp, Crambe, Cucurbits, Cuphea, Dry Peas, Durum, Echium, Eggplant, English Peas, Euphorbia, Evening primrose, Flax, Flaxseed, Gold of Pleasure, Grain Sorghum, Grapes, Grapefruit, Guar, Hare's ear mustard, Hops, Jojoba, Kale, Kenaf, Lemon, Lentil, Lesquerella, Lima Bean, Lunaria, Meadowfoam, Milkweed, Mungbean, Mustard Greens, Mustard Seed, Nectarine, Niger seed, Oil radish, Okra, Onions, Orange, Ornamentals (Trees, Woody Shrubs, Groundcover, Roses, and Established Flowers), Peach, Peanuts, Pecan, Pepper, Peppermint, Plum, Poppy Seed, Potatoes, Prune, Radish, Rapeseed, Rose hip, Safflower, Sesame, Snap Bean, Spearmint, Southern Peas, Soybeans, Stokes aster, Sugar Beets, Sugarcane, Sunflowers, Sweet rocket, Tallowwood, Tangelo, Tangerine, Tea oil plant, Tomatoes, Turnip Greens, Under Paved Surfaces, Vegetable Gardens, Vernonia, Walnut, and Wheat

ACTIVE INGREDIENT:	% BY WT.
trifluralin: $\alpha, \alpha, \alpha$ -trifluoro-2,6-dinitro- <i>N,N</i> -dipropyl- <i>p</i> -toluidine.....	43%
Other Ingredients.....	57%
Total.....	100%

Contains petroleum distillates.  
Contains 4 lb active ingredient per gallon.

EPA Reg. No. 42750-32

EPA Est. No. 42750-MO-001

**KEEP OUT OF REACH OF CHILDREN  
CAUTION / PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

#### FIRST AID

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

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment.

**HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-888-478-0798 for emergency medical treatment information.

**NOTE TO PHYSICIAN:** Contains petroleum distillates. Vomiting may cause aspiration pneumonia. This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. Aspiration of this product may produce a severe pneumonitis. Stomach lavage with a cuffed endotracheal tube in place and immediate administration of activated charcoal, 6 to 8 heaping teaspoonfuls with water, should be considered. Treatment is otherwise symptomatic and supportive.

Refer to inside of label booklet for additional precautionary information including Directions for Use

Manufactured By:  
**Albaugh, LLC**  
1525 NE 36th Street  
Ankeny, Iowa 50021



**Albaugh®**  
Your Alternative™

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

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

**Avoid Freezing – Store Above 40°F**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

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

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

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

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of Barrier Laminate and Viton >14 mils
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS**

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

**USER SAFETY RECOMMENDATIONS**

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
2. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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 extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when disposing of equipment washwaters.

**DIRECTIONS FOR USE**

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

Read all Directions for Use carefully before applying.

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

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

**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 made of Barrier Laminate and Viton >14 mils
- Shoes plus socks
- Protective eyewear

### PRODUCT INFORMATION

TRIFLURALIN 4EC herbicide is a herbicide for the preemergence control of annual grasses and broadleaf weeds in alfalfa, almond, apricot, asparagus, barley, beans – all dry and fresh beans/peas, borage, broccoli, brussels sprouts, cabbage, calendula, carrot, castor oil plant, cauliflower, celery, chicory, Chinese tallowtree, collard greens, corn, cotton, cottonwood trees grown for pulp, crambe, cucurbits, cuphea, dry peas, durum, echium, eggplant, english peas, euphorbia, evening primrose, flax, flaxseed, gold of pleasure, grain sorghum, grapes, grapefruit, guar, hare's ear mustard, hops, jojoba, kale, kenaf, lemon, lentil, lesquerella, lima bean, lunaria, meadowfoam, milkweed, mungbean, mustard greens, mustard seed, nectarine, niger seed, oil radish, okra, onions, orange, ornamental (trees, woody shrubs, groundcover, roses, and established flowers), peach, peanuts, pecan, pepper, peppermint, plum, poppy seed, potatoes, prune, radish, rapeseed, rose hip, safflower, sesame, snap bean, spearmint, southern peas, soybeans, stokes aster, sugar beets, sugarcane, sunflowers, sweet rocket, tallowwood, tangelo, tangerine, tea oil plant, tomatoes, turnip greens, underpaved surfaces, vegetable gardens, vernonia, walnut, and wheat.

TRIFLURALIN 4EC may be applied in liquid sprays of water or liquid fertilizer, or impregnated on dry bulk fertilizer. To reduce loss of herbicidal activity, TRIFLURALIN 4EC should be soil incorporated within 24 hours after application unless otherwise specified in specific use directions or supplemental labeling. TRIFLURALIN 4EC may be tank mixed or followed by overlay or postemergence treatments with other herbicides to improve the spectrum of weeds controlled. TRIFLURALIN 4EC controls weeds by disrupting growth processes during germination. TRIFLURALIN 4EC does not control established weeds.

### USE 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 rotational crop damage from herbicide carryover. Uneven application or improper incorporation of TRIFLURALIN 4EC can result in erratic weed control or crop injury. Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration, or drought may weaken crop seedlings and increase the possibility of damage from TRIFLURALIN 4EC. Under these conditions, delayed crop development or reduced yields may result.

Do not apply TRIFLURALIN 4EC to soils that are wet or are subject to prolonged periods of flooding as poor weed control may result. Do not use TRIFLURALIN 4EC on any crop grown in Pecos county or Reeves county, Texas.

**Chemigation:** TRIFLURALIN 4EC may be applied by chemigation on certain crops. See instructions for chemigation in the Application Methods section of this label. Also, see specific instructions for certain crops in the Crops section of this label.

### ROTATION CROP RESTRICTIONS

#### Sugar Beets, Red Beets, and Spinach

##### **In Arizona, Colorado, California, Idaho, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming:**

Do not plant sugar beets, red beets, or spinach for 12 months after a spring application or 14 months after a fall application of TRIFLURALIN 4EC. Moldboard plowing to a depth of 12 inches prior to planting these crops will reduce the possibility of crop injury. If land has not been irrigated, do not plant these crops for 18 months after a spring application or 20 months after a fall application of TRIFLURALIN 4EC.

**In all other areas:** Do not plant sugar beets, red beets, or spinach for 12 months after a spring application or 14 months after a fall application of TRIFLURALIN 4EC. Before planting sugar beets, moldboard plow to a depth of 12 inches to reduce the possibility of crop injury.

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

##### **In Arizona, Colorado, California, Idaho, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming:**

Delay planting proso millet, corn, sorghum (milo), oats, and annual or perennial grass crops or grass mixtures 12 months after a spring application or 14 months after a fall application of TRIFLURALIN 4EC to avoid the possibility of crop injury. If land has not been irrigated, delay planting these crops 18 months after a spring application or 20 months after a fall application. Moldboard plowing to a depth of 12 inches before planting these crops will reduce the possibility of crop injury.

**In Minnesota, North Dakota, and South Dakota:**

Delay planting proso millet, sorghum (milo), oats, and annual or perennial grass crops or grass mixtures 18 months after a spring application or 21 months after a fall application of TRIFLURALIN 4EC.

**In those portions of Kansas, Nebraska, Oklahoma, and Texas that receive less than 20 inches of rainfall and irrigation to produce a crop:**

Delay planting proso millet, sorghum (milo), oats and annual or perennial grass crops or grass mixtures for 18 months after an application of TRIFLURALIN 4EC. In sorghum, cool, wet weather conditions during early growth stages may increase the possibility of crop injury.

**All other areas receiving more than 20 inches of rainfall and irrigation:**

Delay planting proso millet, sorghum (milo), oats, and annual or perennial grass crops or grass mixtures for 12 months after a spring application or 14 months after a fall application of TRIFLURALIN 4EC.

**Rotation Crops Other Than Those Specifically Addressed Above**

For all other crops, with the exception of those to which TRIFLURALIN 4EC may be applied as a preplant soil incorporated treatment, delay planting for 5 months after an application of TRIFLURALIN 4EC.

### WEED RESISTANCE MANAGEMENT

Trifluralin, the active ingredient in this product, is a Group 3 herbicide, (inhibition of microtubule assembly). Some naturally occurring weed biotypes that are tolerant (resistant) to trifluralin may exist due to genetic variability in a weed population where resistant biotypes exist, repeated use of herbicides with the same mode of action can lead to the selection for resistant weeds. Certain agronomic practices reduce the likelihood that resistant weed populations will develop, and can be utilized to manage weed resistance once it occurs.

Some weeds are known to develop resistance to herbicides that have been used repeatedly. While the development of herbicide resistance is well understood, it is not easily predicted. Therefore herbicides should be used in conjunction with the resistance management strategies in the area. If herbicide resistance should develop in the area, this product used alone may not continue to provide sufficient levels of weed control.

If the reduced levels of control cannot be attributed to improper application techniques, improper use rates, improper application timing, unfavorable weather conditions or abnormally high weed pressure, a resistant strain of weeds may have developed.

Suspected herbicide-resistant weeds may be identified by these indicators:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species

Populations of green foxtail (pigeongrass) resistant to the dinitroaniline (DNA) class of herbicides have been identified in the state of North Dakota in fields which have a long history of dinitroaniline herbicide use. TRIFLURALIN 4EC herbicide will not control green foxtail which has developed DNA resistance. **Therefore, the grower assumes the risk of nonperformance due to DNA resistance if TRIFLURALIN 4EC is used to control green foxtail in the state of North Dakota.** Alternative green foxtail control practices should be utilized in these fields.

Albaugh, LLC strongly recommends use of the following management practices to prevent or delay the development or spread of DNA- resistant green foxtail in spring cereal production areas and other potential weed resistance:

1. Rotate herbicides so that the same product or same class of herbicide is not used repeatedly year after year. TRIFLURALIN 4EC and/or other dinitroaniline herbicides should not be applied in consecutive years and preferably should be used only once in a three year period. Consult your local extension service or Albaugh, LLC representative for information regarding herbicides with alternative modes of action.
2. Rotate crops and use alternative weed control methods, including tillage, fallow periods, and/or other herbicides with different modes of action.
3. Thoroughly clean all crop residues from tillage and harvesting equipment before moving out of fields with confirmed resistance.
4. Plant into weed-free fields and keep fields as weed-free as possible.
5. Avoid tank mixes that may cause antagonism and reduced weed control.
6. Use mechanical cultivation, fertilizer regimens, seeding rates and row widths that enhance crop competitiveness.
7. Prevent weed escapes from producing seed either in the crop or during fallow periods.
8. Always apply this product at the specified rates and in accordance with the use directions. Do not use less than specified label rates alone or in tank mixtures. Do not use reduced rates of the tank mix partner.
9. Scout fields carefully to determine the appropriate time for application.
10. Scout fields carefully after application for performance in control of weeds.
11. Prevent an influx of weeds into the field by managing field borders.

If resistance is suspected, contact the local or State agricultural advisors or your local Albaugh representative for assistance at 1-800-247-8013.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

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

## SOIL TEXTURE GUIDE FOR APPLICATION RATES

Rates listed for incorporated treatments of TRIFLURALIN 4EC are based on Soil Texture Class (coarse, medium, or fine) and soil organic matter content. A fine textured soil (e.g., clay loam) will require a higher application rate than a coarse textured soil (e.g., loamy sand). In the table below, find the Soil Texture Class (coarse, medium, or fine) corresponding to the Soil Texture to be Treated. Choose the proper rate for each application based on the Soil Texture Class and specific crop Direction for Use. Do not exceed the listed maximum use rates.

Soil Texture Class	Soil Texture to be Treated
coarse soils (light)	sand, loamy sand, sandy loam
medium soils	loam, silty clay loam <sup>1</sup> , silt loam, silt, sandy clay loam <sup>1</sup>
fine soils (heavy)	clay, clay loam, silty clay loam <sup>1</sup> , silty clay, sandy clay, sandy clay loam <sup>1</sup>

<sup>1</sup>Silty clay loam and sandy clay loam soils are transitional soils and may be classified as either medium or fine textured soils. If silty clay loam or sandy clay loam soils are predominantly sand or silt, they are usually classified as medium textured soils. If they are predominantly clay, they are usually classified as fine textured soils.

## MIXING DIRECTIONS

### TRIFLURALIN 4EC - Alone

TRIFLURALIN 4EC may be mixed with water or most liquid fertilizer materials. Prior to mixing TRIFLURALIN 4EC in liquid fertilizer, refer to the label section entitled Testing for Compatibility in Liquid Fertilizers for testing procedures to determine compatibility with the liquid fertilizer product to be used. The combination of TRIFLURALIN 4EC with solution and suspension-type fertilizers provides weed and grass control equal to water sprays. Fill spray tank 1/3 to 1/2 full with clean water or liquid fertilizer. Start agitation. Add correct amount of TRIFLURALIN 4EC and continue agitation while filling tank to required spray volume.

**Restriction:** Do not allow water or spray mixture to back-siphon into a water source.

### TRIFLURALIN 4EC In Tank Mix

For broader spectrum weed control, TRIFLURALIN 4EC may be applied in tank mix combination with other products registered for use on crops listed in this label unless tank mixing with trifluralin is prohibited by the manufacturer's label. When tank mixing, use the listed rate of TRIFLURALIN 4EC. Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use.

TRIFLURALIN 4EC may be tank mixed with other products and applied with water or most liquid fertilizer materials. Prior to mixing TRIFLURALIN 4EC with other pesticides or liquid fertilizers, refer to the Compatibility Testing for Tank Mix Partners Including Liquid Fertilizers section below. Vigorous, continuous agitation during mixing, filling, and throughout application is required for all tank mixes. Sparger pipe agitators generally provide the most effective agitation in spray tanks. To prevent foaming in the spray tank, avoid stirring or splashing air into the spray mixture. To prevent foaming during filling, keep end of fill pipe below the surface of the liquid in the spray tank.

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

Add different formulation types in the following order: Dry flowables (DF); wettable powders (WP); aqueous suspensions (AS), flowables (F) and liquids (L). Maintain agitation and fill spray tank to 3/4 of total spray volume. Add TRIFLURALIN 4EC and other emulsifiable concentrates (EC) and any solutions (S). Finish filling the spray tank. Maintain continuous agitation during mixing, final filling, and throughout application. If spraying/agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled material may be more difficult to resuspend than when originally mixed.

### Precautions:

Read and carefully follow all label instructions for each material added to the spray tank.

### Restriction:

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

**Premixing:** Dry and flowable formulations may be premixed with water (slurried) and added to the spray tank through a 20 to 35 mesh screen. This procedure assures good initial dispersion of these products in liquid fertilizer or water. Line screens in the spray tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

### Compatibility Testing for Tank Mix Partners Including Liquid Fertilizers:

A jar test is recommended prior to tank mixing this product with other pesticides or liquid fertilizer to ensure compatibility. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions and in the order indicated in the tank mixing section above. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If components of the mixture separate readily, a compatibility agent may be helpful in maintaining the stability of the spray mixture. If the mixture balls-up, forms flakes, sludges, jels, oily films or layers, or other precipitates, the components of the mixture are not compatible and full-scale tank mixing should not be attempted.

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

## APPLICATION METHODS

**General:** As spray volume decreases, the importance of accurate calibration and uniform application increases. Check calibration and uniformity of spray application daily. To avoid spray drift, do not apply when winds are gusting or when wind speed is greater than 15 mph. Drift potential is lowest between wind speeds of 2 to 10 mph.

### Ground Broadcast Application

Apply TRIFLURALIN 4EC in 5 to 40 gallons of liquid carrier per acre (broadcast basis) using any properly calibrated, low-pressure herbicide sprayer that will apply the spray uniformly. The carrier may be water or liquid fertilizer as specified for the crop to be treated in the Crops section of this label. For band application, adjust herbicide rate and spray volume in proportion to the band width and row width treated.

### Aerial Broadcast Application

Apply TRIFLURALIN 4EC in 5 to 10 gallons of water per acre. Adjust pump pressure, nozzle arrangements, speed, and application height to provide uniform application to the soil surface. Use swath markers or flappers to assure proper swath width interval.

**Avoiding Spray Drift:** Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following spray drift management practices are necessary to avoid off-target movement of sprays:

- The distance from the outer most nozzles on the spray boom must not exceed 3/4 the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

**Information On Droplet Size:** The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets.
- When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** - Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation**- Orienting nozzles so that the spray is released parallel to the air stream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type**- Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

**Boom Length:** For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

**Application Height:** Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

**Swath Adjustment:** When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

**Wind:** Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

**Temperature and Humidity:** When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

**Temperature Inversions:** Applications should not occur during a local, low-level temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small-suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of the smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**Sensitive Areas:** The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

### Application with Dry Bulk Fertilizer

Dry bulk fertilizers impregnated or coated with TRIFLURALIN 4EC may be applied as a preplant incorporated treatment on crops. All label instructions for TRIFLURALIN 4EC regarding application rates, incorporation directions, special instructions, and precautions must be followed. Read and follow all label instructions below concerning use of TRIFLURALIN 4EC with dry bulk fertilizer. Properly applied dry bulk fertilizers impregnated with TRIFLURALIN 4EC provides weed and grass control equal to water sprays.

Use the following formula to calculate the amount of TRIFLURALIN 4EC required to impregnate a ton of dry bulk fertilizer.

Pints TRIFLURALIN 4E per Acre	=	1000 Pounds Fertilizer per Acre	=	Quarts TRIFLURALIN 4E per ton of fertilizer
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**Limitations:** Apply a minimum of 200 lb per acre of dry fertilizer impregnated with TRIFLURALIN 4EC at the specified broadcast rate per acre. Any commonly used dry fertilizer can be used for impregnation with TRIFLURALIN 4EC except coated ammonium nitrate and pure limestone. These materials will not absorb the herbicide. Blends containing mixtures of these materials can be impregnated.

**Impregnation:** Use any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to apply TRIFLURALIN 4EC to dry bulk fertilizer should be placed to provide uniform spray coverage.

**Application and Incorporation:** Spread the fertilizer/chemical mixture with properly calibrated application equipment. Be certain the material is applied uniformly to the soil surface. Dry bulk fertilizer impregnated with TRIFLURALIN 4EC must be incorporated two times. The first incorporation should occur within 24 hours after application. The second incorporation should be delayed a minimum of 5 days after the first and be completed prior to planting.

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

#### **Application by Chemigation**

TRIFLURALIN 4EC may be applied through properly equipped chemigation systems for weed control in certain crops as specified in the Crops section of this label. Read and follow all label instructions outlined below concerning chemigation before applying TRIFLURALIN 4EC by this method.

#### **General Chemigation Directions:**

Apply this product only through continuously moving center pivot, lateral move end tow, solid set, or hand move irrigation systems, or certain other systems described in EPA-accepted supplemental labeling.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of chemigation treated water. If you have questions about calibration you should contact state extension specialists, equipment manufacturers, or other experts.

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

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

#### **Sprinkler Chemigation Directions:**

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

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

#### **Chemigation System Calibration:**

Sample calculation for use of TRIFLURALIN 4EC in a chemigation system:

- Assume, in this example, 133 acres are to be covered by a chemigation treatment.
- Product required, assuming 1.5 pints per acre, is 199.5 pints (133 acres X 1.5 pt/acre = 199.5 pt = 25 gallons)
- Add 25 gallons of product directly to the injection supply tank.
- Adjust the injection system to deliver 25 gallons during the time required to apply 1 inch of water to 133 acres. If the irrigation system requires 20 hours to apply 1 inch of water to 133 acres, the injection rate is 1.25 gal/hr and is calculated as follows:
  - $25 \text{ gal} \div 20 \text{ hr} = 1.25 \text{ gal/hr}$
  - $1.25 \text{ gal/hr} = 160 \text{ fl oz/hr}$

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

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

### **Chemigation Mixing Directions:**

**Undiluted TRIFLURALIN 4EC:** When used alone, the injection of undiluted TRIFLURALIN 4EC is recommended in chemigation systems. For undiluted use, the metering pump, supply tank, and any associated equipment must be thoroughly clean and dry before TRIFLURALIN 4EC is added to the system for injection. When injecting undiluted TRIFLURALIN 4EC, maintain continuous agitation in the supply tank.

**Diluted TRIFLURALIN 4EC:** TRIFLURALIN 4EC may be diluted if required to achieve accurate calibration for existing equipment. Partially fill the injection supply tank with a volume of water equal to the amount of TRIFLURALIN 4EC required (do not add water to TRIFLURALIN 4EC). Start agitation. Add the required amount of TRIFLURALIN 4EC to water in the supply tank and continue mixing while filling the tank to the final volume required by the injection pump calibration. When injecting diluted TRIFLURALIN 4EC, maintain continuous agitation in supply tank.

## **APPLICATION TIMING**

### **Preplant Incorporated Application**

TRIFLURALIN 4EC may be applied and incorporated prior to planting when soil can be worked and is in a condition that allows thorough mixing to insure uniform incorporation. See Crops section for application timing information for specific crops.

### **Preemergence Application Immediately After Planting**

Apply and incorporate TRIFLURALIN 4EC immediately after planting and prior to crop germination. Adjust incorporation equipment so as to avoid disturbance of planted seed. Refer to the Crops section of this label for crop specific instructions.

### **Postemergence and Layby Application**

Apply and incorporate TRIFLURALIN 4EC at the listed rate to the established crop at or before the last cultivation. Required preharvest intervals for treatments with TRIFLURALIN 4EC for certain crops are specified in the Crops section of this label. Crop cover may prevent uniform soil coverage from over-the-top sprays. To avoid this problem, use drop nozzles or directed sprays to achieve uniform soil coverage.

### **Fall Application**

TRIFLURALIN 4EC may be applied in the fall for weed control in the crop of the following growing season in all crops for which TRIFLURALIN 4EC is listed as a preplant incorporated treatment. Refer to the Crops section for any crop specific fall application instructions. In the states of California, North Dakota, South Dakota and Minnesota, apply and incorporate TRIFLURALIN 4EC any time between September 1 and December 31. In all other states, fall apply TRIFLURALIN 4EC between October 15 and December 31.

Do not make Fall applications of TRIFLURALIN 4EC on fields which remain wet or are subject to periods of flooding. Ground may be bedded up over winter. On bedded ground, reduce beds to desired height before planting, by moving some treated soil from beds into furrows. Where soil is left flat over winter, care should be taken not to turn up untreated soil during spring bedding operations. Destroy established weeds during seedbed preparation. Weeds established in furrows as a result of exposing untreated soil should be destroyed before planting.

## **INCORPORATION DIRECTIONS**

### **Soil Preparation and Incorporation**

Ground cover or existing weeds can interfere with uniform soil incorporation of TRIFLURALIN 4EC. A manageable level of ground cover will allow uniform incorporation into the top 2 to 3 inches of the final seedbed. If ground cover and crop residues are, excessive, reduce by appropriate soil tillage prior to application.

TRIFLURALIN 4EC must be incorporated within 24 hours after application unless otherwise specified on supplemental labeling. Non-uniform application may result in erratic weed control or crop injury. With most equipment and methods of application, a second incorporation is required and may occur any time before planting. Make the second incorporation in a different direction. To avoid bringing untreated soil to the surface, the second incorporation must not be deeper than the first.

**Note: Two-pass incorporation is required for all special use programs unless otherwise specified.**

**General Soil Conditions:** Ensure the soil surface is smooth enough to allow for uniform application and efficient incorporation of TRIFLURALIN 4EC. Break up clods using tillage equipment prior to application of TRIFLURALIN 4EC. Apply when soil moisture is sufficient to allow the breakup of large clods and uniform mixing during the incorporation process. Soil compaction and/or non-uniform incorporation may occur if soil is excessively moist.

**Incorporation in Bedded Culture:** In bedded culture, incorporate TRIFLURALIN 4EC to a depth of 2 to 3 inches in the final seedbed.

**Application Prior to Bedding:** Apply TRIFLURALIN 4EC and incorporate one time with recommended equipment. The bedding operation serves as the second incorporation. Do not expose untreated soil during post-bedding operations such as planting since removal of treated soil during planting can allow weed germination and establishment in the drill row.

**Application After Bedding:** Knock off beds to planting height before applying TRIFLURALIN 4EC. Apply and incorporate TRIFLURALIN 4EC with recommended equipment that will conform to the shape of the bed. Do not expose untreated soil.

**Cultivation After Planting:** Treated crops may be shallowly cultivated without reducing the weed control activity of TRIFLURALIN 4EC. Limit depth of cultivation to the zone of treated soil to avoid moving untreated soil to the surface. Exposure of untreated soil may cause loss of weed control.

## **INCORPORATION EQUIPMENT**

Use incorporation equipment capable of mixing TRIFLURALIN 4EC uniformly into the top 2 to 3 inches of the final seedbed. Use of inappropriate equipment or improper use of recommended equipment may result in erratic weed control and/or crop injury. Incorporation equipment such as a tandem disc will mix TRIFLURALIN 4EC approximately half as deep as the equipment is set to operate. For example, a disc set to cut 4 inches deep will mix most of the TRIFLURALIN 4EC within the top 2 inches of soil. Any recommended incorporation implement may be used alone or in combination with any other recommended implement. Two incorporation passes are required when using the following incorporation implements (for single pass incorporation, refer to soil conditions and equipment listed under Single Pass Incorporation Option below):



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

**Rolling Cultivator:** Set equipment to cut 2 to 4 inches deep and operate at 6 to 8 mph.

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

**Mulch Treader and Other Similar Disc-Type Implements:** Set equipment to cut 3 to 4 inches deep and operate at 5 to 8 mph.

**Other Equipment:** Other implements including the flexible tine-tooth harrow (Flextine or Melroe) are recommended, but only for certain uses defined in the Crops section of this label.

**Conservation Tillage Practices:** In reduced or minimum tillage situations, fall or spring application and incorporation of TRIFLURALIN 4EC may be combined with tillage operations. The first incorporation may utilize equipment such as a tandem disc, combination implement or bedding equipment that provides good soil mixing but leaves a maximum amount of crop residue on the soil surface. The second incorporation may be accomplished with tillage equipment that provides uniform soil mixing used in conjunction with no-till planters (see specific recommendations for reduced or conservation tillage situations for cotton and soybeans in the Crops section).

**Springtooth Harrow on Coarse Textured Soils to be Bedded up Prior to Planting (Texas only):**

A springtooth harrow is defined as an implement with 3 to 4 rows of shanks equipped with chisel points spaced at intervals of 7 inches or less and staggered so that no soil is left unturned. The springtooth harrow may be used to effectively incorporate (mix) this product into coarse textured (sandy) soils to be bedded up prior to planting. Destroy existing weeds before an application of this product. Chop and thoroughly mix crop residues into the soil to a depth of at least 4 to 6 inches by deep plowing or discing prior to an application of this product. Use machinery that breaks up large clods before application of TRIFLURALIN 4EC. The first incorporation must occur within 24 hours after application. Set the springtooth harrow to cut 3 to 4 inches deep and operate at a speed of 5 mph or greater. Two passes over the field are required with the second pass in a different direction than the first. The springtooth harrow also may be used as the first or second incorporation tool in combination with other recommended equipment for the other incorporation. Do not incorporate with springtooth harrow if soil is too wet for good mixing. When this product is applied and incorporated before bedding, do not furrow out deeper than the depth to which this product was incorporated. Furrowing too deep will expose untreated soil and allow weeds to germinate in the bottom of the furrow.

**Single Pass Incorporation Option**

TRIFLURALIN 4EC may be incorporated in a single pass if incorporation conditions allow for thorough and uniform mixing into the top 2 to 3 inches of the final seedbed. Thorough and uniform incorporation may be achieved if the soil at the time of incorporation is of good tilth with moderate moisture, and is relatively free of clods and crop residue.

**The following types of equipment can be used to obtain thorough and uniform soil mixing from a single incorporation pass:**

**Finishing Disc** with disc blades no greater than 22 inches in diameter, spaced no more than 7 1/2 inches apart. Operate at 4 to 6 mph. Best results are obtained when the disc is equipped with harrow, reel, or basket attachments.

**Field Cultivator:** Set equipment to cut 3 to 4 inches deep and operate at a minimum of 5 mph. A field cultivator is defined as an implement with 3 to 4 rows of sweeps, spaced at intervals of 7 inches or less with sweeps on successive rows staggered so that no soil is left unturned. Chisel points must not be used. Best results are obtained when the field cultivator is equipped with harrow, reel, or basket attachments.

**Combination Implements:** These implements are defined as two or more tillage devices combined to operate as a single tillage unit. For example, two to three rows of field cultivator C- or S-shaped shanks with successive rows of sweeps staggered so that no soil is left unturned, followed by a spike-tooth or flextine harrow, followed by ground driven reel, basket or incorporator wheels. Set combination implements to cut 3 to 4 inches deep and operated at a minimum of 6 mph. Two incorporations are recommended under conditions which prevent optimum soil mixing such as excessive surface residue, roughness, high clay content or soil is too wet or too dry. Combination tools can also be composed of two rows of wide crown sweeps that overlap so that the roots of all weeds and plants are severed. Follow this by 2 gangs of rotating spoked wheels that thoroughly mix TRIFLURALIN 4EC into the top 2 to 3 inches of the final seedbed.

**P.T.O.-Driven Equipment (Tillers, Cultivators, Hoes):** Adjust equipment to incorporate TRIFLURALIN 4EC into the top 2 to 3 inches of the final seedbed with rotors spaced to provide a clean sweep of the soil. Operate P.T.O. equipment at no more than 4 mph.

**WEEDS CONTROLLED**

**Common Name**

**Grass Weeds**

annual bluegrass  
barnyardgrass (watergrass)  
brachiaria (signalgrass)  
bromegrass  
    (cheatgrass)  
    (downy brome)  
cheat (chess)  
crabgrass  
    (large crabgrass)  
    (smooth crabgrass)

**Scientific Name**

*Poa annua*  
*Echi nochloa crus-galli*  
*Brachiaria spp.*  
*Bromus tectorum*  
  
*Bromus secalinus*  
*Digitaria spp.*

(continued)

## WEEDS CONTROLLED (cont.)

### Common Name

#### Grass Weeds

foxtail  
 (bottlegrass)  
 (bristlegrass)  
 (giant foxtail)  
 (green foxtail)<sup>8</sup>  
 (foxtail millet)  
 (pigeongrass)  
 (robust foxtail)  
 (yellow foxtail)  
 guineagrass<sup>1</sup>  
 itchgrass (raoulgrass)<sup>1</sup>  
 johnsongrass (from seed)<sup>2</sup>  
 junglerice  
 panicum (fall panicum)<sup>3</sup>  
 ryegrass, Italian (annual ryegrass)  
 Texas panicum  
 (buffalograss)  
 (Colgradograss)  
 red rice<sup>4</sup>  
 sandbur (burgrass)  
 sprangletop  
 stinkgrass (lovegrass)  
 shattercane (wild cane)<sup>5</sup>  
 woolly cupgrass

#### Broadleaf Weeds

carpetweed  
 chickweed  
 field bindweed<sup>6</sup>  
 goosefoot  
 henbit  
 knotweed  
 kochia (fireweed)  
 (Mexican fireweed)  
 lambsquarters, common  
 pigweed  
 (carelessweed)  
 (palmer amaranth)<sup>7</sup>  
 (prostrate pigweed)  
 (redroot)  
 (rough pigweed)  
 (spiny pigweed)<sup>5</sup>  
 puncturevine (western U.S. only)  
 (caltrop)  
 (goatweed)  
 purslane, common  
 pusley, Florida  
 (Florida purslane)  
 (Mexican clover)  
 (pusley)  
 Russian thistle (tumbleweed)  
 stinging nettle (nettle)

#### Scientific Name

*Setaria* spp.  
  
*Panicum maximum*  
*Rottboellia exaltata*  
*Sorghum halepense*  
*Echinochloa colonum*  
*Panicum dichotomiflorum*  
*Lolium multiflorum*  
*Panicum texanum*  
  
*Oryza sativa*  
*Cenchrus incertus*  
*Leptochloa filiformis*  
*Eragrostis ciliaris*  
*Sorghum bicolor*  
*Eriochloa villosa*  
  
*Mollugo verticillata*  
*Stellaria media*  
*Convolvulus arvensis*  
*Chenopodium hybridum*  
*Lamium amplexicaule*  
*Polygonum aviculare*  
*Kochia scoparia*  
  
*Chenopodium album*  
*Amaranthus* spp.  
  
*Tribulus terrestris*  
  
*Portulaca oleracea*  
*Richardia scabra*  
  
*Salsola iberica*  
*Urtica dioica*

<sup>1</sup> See special instructions for control in sugarcane in the Crops section.

<sup>2</sup> Rhizome - see special instructions for control in cotton, soybeans, fruit and nut crops and vineyards in the Crops section.

<sup>3</sup> Spreading panicgrass - see special instructions for control in cotton and soybeans in the Crops section.

<sup>4</sup> See special instructions for suppression or partial control in soybeans in the Crops section.

<sup>5</sup> See special instructions for control in soybeans in the Crops section.

<sup>6</sup> See special instructions for control in fruit and nut crops and vineyards in the Crops section.

<sup>7</sup> Suppression only in areas of the southwest U.S. where tolerance to trifluralin has been observed. Consult your local extension service or Albaugh representative for information regarding alternative weed control practices.

<sup>8</sup> Will not control dinitroaniline (DNA) herbicide weed biotypes. See Weed Resistance Management section

**SPECIAL USE PROGRAMS**

TRIFLURALIN 4EC is approved for the following special use programs. Refer to the Crops section of this label for details on soil preparation, use rates, application, soil incorporation, and precautions for each type or program.

**Cotton**

- Fall Application Prior to Planting in the Spring (Arkansas, Louisiana and Mississippi)
- Chemigation
- Postemergence Soil Incorporated (Kansas, Texas, Oklahoma, and New Mexico)
- Weed Control in Conservation Tillage
- Fall Panicum Control
- Pigweed and Seedling Johnsongrass Control
- Additional Weed and Grass Control (Gulf Coast Counties of Texas)
- Rhizome Johnsongrass Control

**Soybeans**

- Fall Application Prior to Planting in the Spring (Arkansas, Louisiana and Mississippi)
- Chemigation
- Weed Control Under Reduced or Conservation Tillage
- Fall Panicum Control
- Pigweed and Seedling Johnsongrass Control
- Additional Weed and Grass Control (Gulf Coast Counties of Texas)
- Itchgrass (Raoulgrass) Suppression
- Charcoal Soils in Arkansas, Louisiana, and Mississippi
- Red Rice Control in Arkansas, Louisiana, Mississippi, and Texas
- Rhizome Johnsongrass Control in Eastern United States and the State of Texas
- Wild Cane (Shattercane) Control
- Enhanced Control of Broadleaf Signalgrass in Soybeans with TRIFLURALIN 4EC Plus Dual Tank Mix
- Control of DNA-Resistant Goosegrass in Soybeans with TRIFLURALIN 4EC Plus Dual Tank Mix

**Citrus, Stone Fruit and Nut Crops and Vineyards**

- Rhizome Johnsongrass Control
- Field Bindweed Control

**CROPS**

**ALFALFA – ESTABLISHED**

**Mechanically Incorporated**

Apply TRIFLURALIN 4EC with ground or aerial equipment and mechanically incorporate prior to weed emergence to control weeds listed in the Product Information section of this label. Use mechanical incorporation equipment that will insure thorough soil mixing with minimal damage to crop stand.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.5
medium	2.0
fine	2.0

**Surface Applications (Chemigation or Water Incorporated)**

TRIFLURALIN 4EC may be surface applied for annual grass control in established alfalfa by chemigation, or ground or aerial broadcast application equipment.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
all soil textures	4.0

**Chemigation:** Refer to Application by Chemigation section in the Product Information section of this label for use directions for chemigation.

**Surface Applications Activated by Rainfall or Irrigation**

Broadcast surface applications of TRIFLURALIN 4EC to established alfalfa may be activated by rainfall, sprinkler, flood, or furrow irrigation.

Rainfall or a single overhead sprinkler irrigation of 0.5 acre inch or more is required to activate TRIFLURALIN 4EC. If activated by furrow irrigation, care should be taken to thoroughly wet beds between furrows. If rainfall or irrigation has not occurred within three days after application, TRIFLURALIN 4EC may be mechanically incorporated. If mechanically incorporated, use equipment that will insure thorough soil mixing with minimum damage to the established alfalfa.

**Application Timing and Weeds Controlled**

Applications to established alfalfa for annual grass control can be made during dormancy or semi-dormancy, or during the growing season immediately after a cutting. Because TRIFLURALIN 4EC does not control established weeds, application must be made prior to the expected time of weed germination. Bromegrass and cheat begin to germinate in the fall with the onset of cooler weather. To control these weeds, apply TRIFLURALIN 4EC immediately after a cutting between August 1 and October 1, but prior to weed germination. When fall applied, TRIFLURALIN 4EC controls bromegrass and cheat in addition to other labeled weeds that germinate after application.

The following weeds are controlled when TRIFLURALIN 4EC is applied by chemigation or surface applied and incorporated by rainfall or irrigation:

barnyardgrass	crabgrass
bromegrass	cupgrass
(cheatgrass)	foxtail
(downy brome)	junglerice
(cheat)	sandbur
(chess)	wild barley
canarygrass	

**Restrictions:**

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

**Tank Mixing**

Other products registered for use on established alfalfa may be applied in tank mix combination with TRIFLURALIN 4EC or applied as sequential treatments following application of TRIFLURALIN 4EC.

Tank mixes containing TRIFLURALIN 4EC must be applied by ground broadcast when alfalfa is dormant or semi-dormant, or immediately after a cutting.

**Precautions:** Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

**ALFALFA – NEW SEEDING ESTABLISHMENT**

This product may be applied as a preplant incorporated treatment for preemergence control of labeled weeds in direct seeded alfalfa. Apply and incorporate prior to planting.

**Broadcast Application Rates:**

Soil Texture	TRIFLURALIN 4EC (pt/acre)
coarse	1.0
medium	1.0 – 1.5*
fine	1.5

\*Use lower rate in rate range in areas receiving less than 20 inches of rainfall and irrigation.

Precautions: Some crop stand reduction and stunting may occur with this use of this product, however, reduced weed competition will allow establishment of a quality stand.

**ASPARAGUS – ESTABLISHED**

Apply TRIFLURALIN 4EC to established asparagus as a single or split application. TRIFLURALIN 4EC will suppress volunteer seedling asparagus and field bindweed when applied as directed. Follow the soil preparation, application, and incorporation procedures for TRIFLURALIN 4EC.

**Application Timing**

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

**cast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)	
	Split Application	Single Application
	Before and After Harvest	Before or After Harvest
coarse	1.0 + 1.0	2.0
medium	1.5 + 1.5	3.0
fine	2.0 + 2.0	4.0

- Do not apply more than 2 pints per acre on coarse soils, 3 pints per acre on medium soils or 4 pints per acre on fine soils during any calendar year.

**BEANS - ALL DRY AND FRESH BEANS/PEAS FROM CROP GROUP 6 (EXCEPT GUAR, MUNGBEAN, LIMA BEAN, SNAP BEAN, SOYBEAN, ENGLISH PEA AND SOUTHERN PEA)**

**TRIFLURALIN 4EC – Alone**

Apply and incorporate TRIFLURALIN 4EC in the spring before planting or in the fall in advance of spring planting. See instructions for fall application of TRIFLURALIN 4EC under the heading Application Timing in the Product Information section of this label.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.0 – 1.5
fine	1.5 – 2.0

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

**Tank Mixing or Sequential Treatments**

For broader spectrum weed control, other products registered for use in dry and fresh beans/peas may be applied in tank mix combination with TRIFLURALIN 4EC or as a sequential treatment following application of TRIFLURALIN 4EC. When tank mixing, use the listed rate of TRIFLURALIN 4EC. Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

**BEANS - GUAR AND MUNGBEAN**

Apply TRIFLURALIN 4EC as a preplant soil incorporated treatment.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5
fine	1.5

- All soils with 2 to 5% organic matter - 1.5 pints

**BEANS - LIMA BEAN AND SNAP BEAN**

Apply TRIFLURALIN 4EC as a preplant soil incorporated treatment.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.0
fine	1.5

- All soils with 2 to 5% organic matter - 1.5 pints

**CARROT**

Apply TRIFLURALIN 4EC as a preplant soil incorporated treatment.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.5 – 2.0

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

**Chemigation:** TRIFLURALIN 4EC may be applied through properly equipped chemigation systems for weed control in carrot. Refer to Application by Chemigation section under the Application Methods section of this label for chemigation use directions. Do not apply TRIFLURALIN 4EC through any type of irrigation system unless these directions are carefully followed.

### CELERY

Apply TRIFLURALIN 4EC as a soil incorporated treatment. TRIFLURALIN 4EC may be applied to direct seeded or transplant celery before planting, at planting, or immediately after planting.

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.5 – 2.0

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

### CHICORY (CICHORIUM INTYBUS OR CICHORIUM ENDIVA)

TRIFLURALIN 4EC may be applied as a preplant incorporated treatment to chicory grown either as a root crop or leafy vegetable as indicated below:

*Cichorium intybus*, considered to be a root crop, may yield the following:

- Chicory - the dried and processed root used as a coffee substitute.
- Radicchio - green leaves harvested from field grown plantings.
- Belgian Endive - white leaves grown in the dark; growth from field grown rootstalks.

*Cichorium endiva*, considered to be a leafy vegetable, may yield the following:

- Escarole - curly green leaves from field grown plantings.
- Endive - very curly green leaves from field grown plantings.

Apply TRIFLURALIN 4EC as a soil incorporated treatment in spring or early summer prior to planting.

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5
fine	2.0

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

### COLE CROPS - BROCCOLI, BRUSSELS SPROUTS, CABBAGE, AND CAULIFLOWER

#### Direct Seeded Cole Crops

Apply TRIFLURALIN 4EC as a preplant soil incorporated treatment.

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.0
fine	1.5

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

**Transplanted Cole Crops**

Apply and incorporate TRIFLURALIN 4EC prior to transplanting.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.5 – 2.0

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

**Direct Seeded Chinese Cabbage or Kohlrabi**

Apply this product as a preplant soil incorporated treatment.

**Broadcast Application Rates/Acre:**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.0
fine	1.5

- All soils with 2-5% organic matter – 1.5 pints of TRIFLURALIN 4EC

**Precautions:**

Chinese cabbage and kohlrabi may be sensitive to this product under certain conditions.

The combined effect of certain cultural practices and unfavorable soil or environmental conditions may cause excessive crop seedling stress resulting in retarded crop growth, stand reduction, and reduced yield.

For best results, observe the following cultural practices or precautions when applying TRIFLURALIN 4EC.

- Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration, or drought may weaken crop seedlings and increase the possibility of crop stress and damage.
- Do not exceed specified application rates. This is particularly important on coarse textured or low organic matter soils.
- Carefully follow incorporation directions.
- Use only high quality seed and plant at maximum seeding rates.

**CORN - FIELD CORN ONLY****Postemergence Incorporated Treatment**

Apply TRIFLURALIN 4EC as a postemergence treatment following cultivation and/or use of a preemergence herbicide. TRIFLURALIN 4EC does not control established weeds. Apply when crop is well established (2 true leaf stage or taller). Apply as an over-the-top spray or as a directed spray using drop nozzles if foliage prevents uniform coverage of the soil surface.

**Incorporation Directions**

Applications of TRIFLURALIN 4EC must be mechanically incorporated within 24 hours. Mechanical incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. Make 3 to 5 sweeps per row with the sweep-type cultivator and operate at a speed that will provide vigorous soil mixing. Set middle sweeps so as to avoid exposing untreated soil. Adjust incorporation equipment so as to avoid mechanical injury to the crop.

**Water In Option for Coarse and Medium Textured Soils:** On coarse and medium textured soils, TRIFLURALIN 4EC may be incorporated by continuous rainfall or sprinkler irrigation amounting to at least 1/2 to 1 inch of water. Best results are obtained if application is made immediately after a cultivation when the soil surface is open and porous. Rainfall or sprinkler irrigation prior to application will tend to consolidate and seal the soil surface and prevent the downward movement of TRIFLURALIN 4EC that is expected under porous, open, recently tilled conditions. Supplemental irrigation can be applied through a center pivot, solid set, or hand moved sprinkler system. Do not use furrow irrigation. Mechanically incorporate as described above if the required amount of rainfall or sprinkler irrigation does not occur within 24 hours after application.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	0.75 – 1.0 <sup>1</sup>
medium	1.25 – 1.5
fine	1.5 – 2.0

<sup>1</sup> Apply 1 to 1.5 pints per acre on coarse soils in Alabama, Florida, Georgia, North Carolina, South Carolina, and Virginia to control fall panicum and Texas panicum.

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

**Precautions:**

- Where corn is planted in a furrow, TRIFLURALIN 4EC must be applied only after a cultivation to move soil into the row.

**Restrictions:**

- Do not apply to sweet corn, popcorn, or corn grown for seed.
- Do not apply TRIFLURALIN 4EC to corn as a preplant or preemergence treatment or crop injury may occur.
- Do not apply TRIFLURALIN 4EC within 6 weeks prior to harvesting forage, fodder, or silage, or after corn is 30 inches tall.

**Chemigation**

TRIFLURALIN 4EC may be applied through properly equipped chemigation systems for weed control in field corn. Refer to Application by Chemigation section in the Product Information section of this label for chemigation use directions. Do not apply TRIFLURALIN 4EC through any type of irrigation system unless these directions are carefully followed.

**Application Timing**

Apply TRIFLURALIN 4EC in 1/2 to 1 acre inch of sprinkler irrigation when field corn is at the 2 true leaf stage of growth or taller. Apply TRIFLURALIN 4EC prior to weed emergence or after existing weeds have been controlled with herbicides or cultivation. TRIFLURALIN 4EC does not control established weeds.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.5 – 2.0
medium	1.5 – 2.0
fine	Do not apply by chemigation to fine textured soils

**Precautions:**

- Do not apply TRIFLURALIN 4EC by chemigation to sweet corn, popcorn, or corn grown for seed.
- Where corn is planted in a furrow, TRIFLURALIN 4EC should be applied only after a cultivation to move soil into the row.
- Do not apply TRIFLURALIN 4EC to corn as a preplant or preemergence treatment as crop injury may occur.

**Restriction:**

- Do not apply TRIFLURALIN 4EC within 6 weeks prior to harvesting forage, fodder, or silage, or after corn is 30 inches tall.

**COTTON AND COTTONSEED****Application Timing**

TRIFLURALIN 4EC may be applied for weed control in cotton in the fall, in the spring before planting, after planting, but prior to crop emergence, or to established cotton up to and including layby, but no later than 90 days before harvest.

**Application Directions**

TRIFLURALIN 4EC may be applied and soil incorporated or it may be applied through chemigation (see directions for chemigation in Chemigation section below).

Follow the soil preparation, application, and incorporation procedures in the Product Information section of this label. For fall application, in addition to the directions below, refer to instructions in the Application Timing section under Product Information. For layby application, refer to instructions in the Layby Application section below.

If incorporating after planting, incorporate TRIFLURALIN 4EC soon after planting and set equipment so as to avoid disturbing planted cottonseed. For band applications, reduce the application rate in proportion to the row spacing and bandwidth treated. For example, treating a 12-inch band where the row spacing is 36 inches would require 1/3 of the listed broadcast rate per acre (12 inches divided by 36 inches = 1/3).

**Tank Mixing or Sequential Treatments:** For broader spectrum weed control, other products registered for use in cotton may be applied in tank mix combination with TRIFLURALIN 4EC or as a sequential treatment following application of TRIFLURALIN 4EC. When tank mixing, use the listed rate of TRIFLURALIN 4EC. Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

**Conventional Tillage Cotton Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)		
	Spring Application <sup>1</sup>	Fall Application	
		Eastern U.S. <sup>2</sup>	Western U.S. <sup>3</sup>
coarse	1.0	2.0	1.5
medium	1.25 – 1.5	2.0	2.0
fine	1.5 – 2.0	2.5	2.5

<sup>1</sup> Spring Application:

- On coarse and medium soils with 2 to 5% organic matter use 1.5 pints per acre.
- On fine soils with 2 to 5% organic matter use 2 pints per acre.
- On all soils with 5 to 10% organic matter use 2 to 2.5 pints per acre.
- Use lower rate in rate range for areas receiving less than 20 inches of total annual rainfall and irrigation.

(continued)



<sup>2</sup> Fall Application: For eastern U.S. including Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri (Bootheel), North Carolina, New Mexico, Oklahoma, South Carolina, Tennessee, and Texas.

<sup>3</sup> Fall Application: For western U.S. including Arizona and California.

For fall application in all other states and areas not listed in the above footnotes: Apply TRIFLURALIN 4EC at the spring application rate, using the high rate where a range is given.

**Minimum Tillage Cotton (Conservation Tillage Cotton)**

Fall Application Prior to Establishing a Cover Crop

Apply TRIFLURALIN 4EC to flat ground at a broadcast rate of 2 to 3 pints per acre. Use the 3 pint per acre rate where crop residues are present or where dense weed populations are anticipated. Incorporate once within 24 hours using incorporation implements, such as a springtooth harrow, set to cut no more than 2 to 3 inches deep. Do not incorporate with a tandem disc. Form beds with disc bedders or other bedding implements that will mix and move most of the treated soil from the furrow area to the beds. Fertilizer may be applied as appropriate during incorporation operations. Plant 2 to 4 rows of a small grain cover crop, such as barley, rye or wheat, 2 inches deep in the furrow area between the beds. To avoid injury to small grain seedlings, place seed below the treated layer of soil. Barley is more tolerant to injury than wheat or rye. Existing soil moisture must be present to establish and maintain the cover crop. In late winter (February), apply 2,4-D if necessary for broadleaf weed control.

**Spring Application Before or After Planting**

Apply TRIFLURALIN 4EC as a broadcast treatment or as a band to bare ground or standing dead cover following burndown with a postemergence herbicide. TRIFLURALIN 4EC may be applied and incorporated either before planting or after planting. If applied after planting, incorporate immediately and set incorporation equipment to operate at a depth that will not disturb the planted seed. If TRIFLURALIN 4EC is applied as a band, adapt incorporation equipment to the width of the treated band and use equipment that that will uniformly mix TRIFLURALIN 4EC into the top 1 inch of soil. Be aware that compared to double-pass incorporation, weed control may be reduced when using single pass incorporation; or, if using equipment that does not provide thorough soil mixing.

**Fall Application Prior to Planting Cotton in the Spring (Arkansas, Louisiana and Mississippi)**

Apply TRIFLURALIN 4EC at higher specified rates as a preplant soil incorporated treatment in the fall prior to planting cotton in the spring only in Arkansas, Louisiana, and Mississippi.

**Broadcast Application Rates per Acre for Minimum Tillage**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0 – 2.0
medium	1.5 – 2.0
fine	2.0 – 4.0

Use the lower rate in the rate range when additional sequential applications of TRIFLURALIN 4EC are anticipated. Use the higher rate in the rate range where crop residues are present, and where dense weed populations are anticipated.

**Chemigation**

Apply TRIFLURALIN 4EC in overhead sprinkler irrigation equal to 1/2 to 1 inch of water in either conventional or minimum tillage cotton. TRIFLURALIN 4EC must be applied within two days after planting and prior to crop emergence. Because TRIFLURALIN 4EC does not control established weeds, planting and application should occur as soon as possible after the last tillage operation. Soil incorporation is not required when TRIFLURALIN 4EC is applied through chemigation systems.

**Cultivation:** Soil treated by chemigation with TRIFLURALIN 4EC may be shallow cultivated without reducing weed control activity.

Refer to Application by Chemigation in the Product Information section of this label for use directions for chemigation. Apply TRIFLURALIN 4EC only through the kinds of sprinkler irrigation systems specified in that section of the label.

**Broadcast Application Rates per /Acre for Chemigation**

Soil Texture	TRIFLURALIN 4EC (pints)	
	Conventional Tillage	Minimum Tillage <sup>1</sup>
coarse	1.0	1.0 – 3.0
medium	1.5	1.5 – 4.0
fine	2.0	2.0 – 4.0

<sup>1</sup> In minimum tillage situations, use the lower rate in the rate range when additional sequential applications of TRIFLURALIN 4EC are anticipated. Use the higher rate in the rate range when a large amount of crop residue is present, where dense weed populations are anticipated, or when additional sequential applications will not be made.

**Rotational Crop Restrictions after Chemigation:**

- Conventional Tillage: Refer to the rotational crop restrictions in the Use Precautions section of this label.
- Minimum Tillage: In addition to the rotational crop restrictions listed in the Use Precautions section of this label, do not plant grain sorghum in the year following the application of TRIFLURALIN 4EC.

### Layby Application

Make layby application in established cotton after the 4 true leaf growth stage, but no later than 90 days before harvest. Apply TRIFLURALIN 4EC uniformly to the soil surface using drop nozzles if necessary. Incorporate into soil using one pass of a sweep-type cultivator or properly adjusted rolling cultivator. Operate cultivation equipment at speeds sufficient to provide vigorous soil mixing, and exercise care to avoid mechanical injury to the crop. Compared to conventional double pass incorporation, weed control may be reduced when using single pass incorporation, or if using equipment that does not provide thorough soil mixing. The layby application rate must not exceed the rate given in the layby table below for each soil texture.

#### Layby Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5
fine	2.0

### Special Use Programs

#### 1. Cotton – Fall Panicum Control

Apply as a preplant incorporated treatment at a broadcast rate of 2 pints per acre on both coarse and medium soils.

#### 2. Cotton – Pigweed and Seedling Johnsongrass Control

Apply TRIFLURALIN 4EC as a preplant incorporated treatment in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, southeastern Missouri (Bootheel), North Carolina, South Carolina, Tennessee, and southern Virginia.

#### Broadcast Application Rates per Acre for Pigweed and Seedling Johnsongrass Control

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0 – 1.5
medium	1.5 – 2.0
fine	2.0

**Exception:** Louisiana, where 3 pints per acre can be applied to fine soils.

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

#### 3. Cotton – Additional Weed and Grass Control in Gulf Coast Counties of Texas

Apply TRIFLURALIN 4EC as a preplant incorporated treatment up to 2 weeks before planting in Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller, and Wharton counties of the Texas Gulf Coast.

#### Broadcast Application Rates per Acre in Gulf Coast Counties of Texas

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.5
medium	2.0
fine	3.0

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

Rhizome johnsongrass control with TRIFLURALIN 4EC requires maximum application rates for two consecutive years (see Broadcast Application Rates per Acre for Rhizome Johnsongrass Control below). Commercially acceptable control cannot be obtained with only one year of applying the maximum use rate of TRIFLURALIN 4EC. Carefully follow all special use directions.

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

#### Broadcast Application Rates per Acre for Rhizome Johnsongrass Control

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	2.0
medium	3.0
fine	4.0

**Spring Application:** Apply TRIFLURALIN 4EC any time before planting in the spring for two years in succession.

**Fall Application:** Apply TRIFLURALIN 4EC between October 15 and December 31 for two years in succession.

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

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

**Precautions:** In the season following a maximum rate treatment, plant only rice or crops for which TRIFLURALIN 4EC is labeled as a preplant incorporated treatment, or crop injury may occur.

**Restrictions and Use Precautions**

**Precautions:** To avoid crop injury, plant cotton after early season adverse weather conditions have passed, especially when using high rates. Cool, wet weather early in the growth cycle causes stress to the cotton plant. The added stress may result in reduced stand, delayed maturity, and reduced yields.

**Maximum Crop Year Use Rates:** For full season weed control, TRIFLURALIN 4EC may be applied one or more times sequentially during the crop year observing the rates, methods of application, and a 90-day preharvest interval. The maximum dosage must not exceed the rates given, and the maximum cumulative amount of TRIFLURALIN 4EC that may be applied within the same crop year (includes fall application or spring application plus layby application) must not exceed 4 pints per acre (2 lb active ingredient per acre).

**Rotation Crop Restrictions:** Refer to Rotation Crop Restrictions section under Product Information for specific rotational crop restrictions. When the cumulative amount of TRIFLURALIN 4EC in one crop year (fall or spring plus layby) exceeds the rates in the table below, plant only those crops for which TRIFLURALIN 4EC is labeled as a preplant incorporated treatment in the season following the application of TRIFLURALIN 4EC , or crop injury may result.

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.5
medium	1.5
fine	2.0

A small grain cover crop such as barley, rye, or wheat that is intended for prevention of wind erosion in minimum tillage cotton may be planted in the fall following a maximum crop year use rate of 4 pints per acre of TRIFLURALIN 4EC ; however, reduced stand and delayed emergence and development of the cover crop may result. The cover crop must not be grazed or harvested.

**COTTONWOOD TREES GROWN FOR PULP**

Apply as a soil incorporated treatment to control weeds susceptible to TRIFLURALIN 4EC in new and established plantings of cottonwood trees grown for pulp.

**Application Before Planting**

Apply and incorporate TRIFLURALIN 4EC before planting.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.5 - 2.0

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

**Application to Established Plantings**

In established plantings, apply and incorporate TRIFLURALIN 4EC prior to periods of weed germination or immediately after existing weeds are controlled by tillage or herbicide treatment. Apply as a directed spray and use incorporation methods not injurious to the crop.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
all soil textures	2.0 – 4.0

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

**Johnsongrass Suppression in Established Plantings**

Proper soil preparation before application is necessary for satisfactory results. Use a chisel plow or similar implement to bring rhizomes to the soil surface. Then work the soil twice using a tandem disc to cut rhizomes into small (2 to 3 inch) pieces and to destroy emerged johnsongrass.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
all soil textures	4.0

**Incorporation:** Incorporate twice with tandem disc set to cut 4 to 6 inches deep and operated at 4 to 6 mph.

**Cultivation:** Some johnsongrass plants will escape. Timely cultivation with tillage implements or spot spraying with effective postemergence herbicides will improve the level of johnsongrass control.

### CUCURBITS

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

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.5 - 2.0

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

**Restriction:** Do not apply within 30 days of harvest, except for watermelon which has a 60-day preharvest interval.

### EGGPLANT (TRANSPLANT)

Apply and incorporate TRIFLURALIN 4EC before transplanting or apply post-transplant and incorporate. When applied post-transplant, direct liquid sprays to the soil between rows and beneath plants.

#### Broadcast Application Rates/Acre:

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.0
fine	1.5

- On coarse and medium soils with 2-5% organic matter - 1.5 pints of TRIFLURALIN 4EC

#### Precautions:

Eggplant may be sensitive to this product under certain conditions. The combined effect of certain cultural practices and unfavorable soil or environmental conditions may cause excessive crop seedling stress resulting in retarded crop growth, stand reduction, and reduced yield.

#### For best results, observe the following cultural practices or precautions when applying TRIFLURALIN 4EC:

- Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration, or drought may weaken crop seedlings and increase the possibility of crop stress and damage.
- Carefully follow incorporation directions.

#### Restriction:

- Do not exceed specified application rates. This is particularly important on coarse textured or low organic matter soils.

### FLAX AND FLAX SEED (FALL APPLICATION ONLY)

Apply and incorporate TRIFLURALIN 4EC in the fall for weed control in spring seeded flax. Incorporate once within 24 hours after application. The second incorporation may be performed in the spring prior to planting.

#### Special Instructions for Flax

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

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5
fine	2.0

## GRAIN SORGHUM (MILO)

### Postemergence Incorporated Treatment

Apply TRIFLURALIN 4EC as a directed or over-the-top spray when grain sorghum is 8 to 24 inches tall. Use drop nozzles if foliage prevents uniform soil coverage.

**Soil Preparation:** Cultivate before application of TRIFLURALIN 4EC to remove established weeds and to cover the base of grain sorghum plants with soil. Set cultivation equipment to add approximately 1 inch of soil to the base of sorghum plants.

**Incorporation Directions:** Applications of TRIFLURALIN 4EC must be mechanically incorporated within 24 hours after application. Mechanical incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. With sweep-type cultivators, make 3 to 5 sweeps per row middle and be operated at a speed that will provide vigorous soil mixing. Set middle sweeps so as to avoid exposing untreated soil. Adjust incorporation equipment so as to avoid mechanical injury to the crop.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	0.75 – 1.0
medium	1.0 – 1.5
fine	1.5 – 2.0

- Apply TRIFLURALIN 4EC at lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

### Precaution:

- Over-application may result in injury to grain sorghum.

### Restrictions:

- Do not apply TRIFLURALIN 4EC to grain sorghum as a preplant or preemergence treatment or crop injury will occur.
- Do not apply after grain sorghum is 24 inches tall.

### Chemigation

TRIFLURALIN 4EC may be applied through properly equipped chemigation systems for weed control in grain sorghum 8 to 24 inches tall. Refer to Application by Chemigation section in the Product Information section of this label for chemigation use directions. Do not apply TRIFLURALIN 4EC through any irrigation system unless these directions are carefully followed.

**Soil Preparation:** Cultivate before application of TRIFLURALIN 4EC to destroy existing weeds and cover the base of the grain sorghum plants with soil. Cultivation equipment should be set to add approximately 1 inch of soil to the base of sorghum plants.

**Application Timing:** Apply TRIFLURALIN 4EC to grain sorghum in 1/2 to 1 acre inch of overhead sprinkler irrigation as soon as possible after a cultivation when grain sorghum is 8 to 24 inches tall. TRIFLURALIN 4EC must be applied prior to weed emergence or after existing weeds are controlled. TRIFLURALIN 4EC does not control established weeds.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	0.75 – 1.0
medium	1.0 – 1.5
fine	Do not apply by chemigation to fine textured soils.

**Restriction:** Do not apply after grain sorghum is 24 inches tall.

## GREENS - COLLARD, KALE, MUSTARD AND TURNIP (FRESH OR FOR PROCESSING OR GROWN FOR SEED)

Apply TRIFLURALIN 4EC to greens as a preplant soil incorporated treatment.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5
fine	1.5

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

## HOPS

Apply and incorporate TRIFLURALIN 4EC to established crop during dormancy. Use incorporation equipment that will insure thorough soil mixing with minimal damage to crop stand.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.5

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

## KENAF

Apply TRIFLURALIN 4EC as a preplant soil incorporated treatment.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
Coarse <sup>1</sup>	1
medium	1 – 1.5
fine	1.5

<sup>1</sup> Coarse soils with 2 to 5% organic matter - 1.5 pints

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

**Restriction:** Do not graze or harvest treated crop for livestock forage.

## LENTILS (ONLY FOR USE IN NORTH DAKOTA)

Apply and incorporate TRIFLURALIN 4EC in the spring before planting.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.0
fine	1.5

### Precautions:

Lentil may be sensitive to this product under certain conditions. The combined effect of certain cultural practices and unfavorable soil or environmental conditions may cause excessive crop seedling stress resulting in retarded crop growth, stand reduction, and reduced yield.

For best results, observe the following cultural practices or precautions when applying TRIFLURALIN 4EC :

- Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration, or drought may weaken crop seedlings and increase the possibility of crop stress and damage.
- Carefully follow incorporation directions.
- Use only high quality seed and plant at maximum seeding rates.

### Restriction:

- Do not exceed specified application rates. This is particularly important on coarse textured or low organic matter soils.

**OILSEED – BORAGE, CRAMBE, CUPHEA, ECHIUM, GOLD OF PLEASURE (CAMELINA), HARE’S EAR MUSTARD, LESQUERELLA, LUNARIA, MEADOWFOAM, MILKWEED, MUSTARD SEED, OIL RADISH, POPPY SEED, RAPESEED (CANOLA VARIETIES ONLY), SESAME, SWEET ROCKET**

Apply as a soil incorporated treatment in the spring before planting, or in late summer or early fall before a fall planting. Follow soil preparation, application, and incorporation directions for TRIFLURALIN 4EC.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5
fine	2.0

**Precautions:**

- Where applications are made in late summer or fall, plant as rotation crops in the season following application only those crops to which TRIFLURALIN 4EC may be applied as a preplant incorporated treatment or crop injury may occur.

**Restrictions:**

- Do not apply to rapeseed (canola) grown in the state of Alaska.
- Do not graze or harvest crambe for livestock forage.
- Do not exceed 1.5 pt/A for mustard seed

**Weed Control in Rapeseed (Canola), Crambe in the state of Montana:** Apply and incorporate TRIFLURALIN 4EC in the fall after September 1 or in the spring before planting. Make only one application of this product per crop cycle. Follow soil preparation, application and incorporation instructions in the product label for this product.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5
fine	2.0

Use 1.5 to 2.0 pints of TRIFLURALIN 4EC per acre on coarse and medium soils with 2-5% organic matter.

**Restrictions:**

- **Rotational Crop Planting Restriction:** Plant only spring seeded barley (grown under irrigated conditions), rapeseed, safflower or sunflower as rotational crops in the crop year following the crop treated with this product. If one of these specified crops is not planted, the land should be left idle or fallow for the entire crop year following the crop treated with this product.
- Do not graze or harvest crambe for livestock forage.

**OILSEED – CALENDULA, CASTOR OIL PLANT, CHINESE TALLOWTREE, EUPHORBIA,  
EVENING PRIMROSE, JOJOBA, NIGER SEED, ROSE HIP, STOKES ASTER,  
SUNFLOWER, TALLOWWOOD, TEA OIL PLANT, AND VERNONIA**

**TRIFLURALIN 4EC - Alone**

Apply and incorporate TRIFLURALIN 4EC in the spring before planting or in the fall in advance of spring planting. See instructions for fall application under “Application Timing” in the “ Product Information “ section of this label.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.5 – 2.0

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

**Tank Mixing**

For broader spectrum weed control, other products registered for use in sunflowers may be applied in tank mix combination with TRIFLURALIN 4EC or as a sequential treatment following application of TRIFLURALIN 4EC. When tank mixing, use the listed rate of TRIFLURALIN 4EC. Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

**Weed Control in Sunflower in the state of Montana:** Apply and incorporate TRIFLURALIN 4EC in the fall after September 1 or in the spring before planting. Make only one application of this product per crop cycle. Follow soil preparation, application and incorporation instructions in the product label for this product.

**Broadcast Application Rates per Acre:**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5
fine	2.0

Use 1.5 to 2.0 pints of TRIFLURALIN 4EC per acre on coarse and medium soils with 2-5% organic matter.

(continued)

**Restrictions:**

- **Rotational Crop Planting Restriction:** Plant only spring seeded barley (grown under irrigated conditions), rapeseed, safflower or sunflower as rotational crops in the crop year following the crop treated with this product. If one of these specified crops is not planted, the land should be left idle or fallow for the entire crop year following the crop treated with this product.
- Do not graze or harvest crambe for livestock forage.

**OILSEED – SAFFLOWER**

Apply and incorporate TRIFLURALIN 4EC in the spring before planting or in fall in advance of spring planting. See instructions for fall application under Application Timing in the Product Information section of this label.

**Broadcast Application Rates/Acre:**

Soil Texture	TRIFLURALIN 4EC (pints)	
	Spring Application	Fall Application
coarse	1.0	1.5
medium	1.25 – 1.5	2.0
fine	1.5 – 2.0	2.5

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

**Weed Control in Safflower in the state of Montana:** Apply and incorporate TRIFLURALIN 4EC in the fall after September 1 or in the spring before planting. Make only one application of TRIFLURALIN 4EC per crop cycle. Follow soil preparation, application and incorporation instructions in the product label for TRIFLURALIN 4EC.

**Broadcast Application Rates per Acre:**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5
fine	2.0

Use 1.5 to 2.0 pints of TRIFLURALIN 4EC per acre on coarse and medium soils with 2-5% organic matter.

**Restrictions:**

- **Rotational Crop Planting Restriction:** Plant only spring seeded barley (grown under irrigated conditions), rapeseed, safflower or sunflower as rotational crops in the crop year following the crop treated with TRIFLURALIN 4EC. If one of these specified crops is not planted, the land should be left idle or fallow for the entire crop year following the crop treated with TRIFLURALIN 4EC.
- Do not graze or harvest crambe for livestock forage.

**OKRA**

Apply TRIFLURALIN 4EC as a soil incorporated treatment, before or immediately after planting. If applied and incorporated after planting, set equipment so as to avoid disturbance of planted seed.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.5 – 2.0

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



### ONIONS (DRY BULBS ONLY)

**Postemergence Layby Application:** Apply at layby to the soil between onion rows. Avoid applying directly to the tops or exposed bulbs of onion plants. Emerged weeds should be removed prior to application of TRIFLURALIN 4EC. TRIFLURALIN 4EC will not control established weeds.

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	0.75 – 1.0
medium	1.0 – 1.25

- Apply only to soils containing 3.5% or less organic matter
- Note: Use the lower rate in rate range where light weed pressure is anticipated.

**Incorporation:** TRIFLURALIN 4EC should be uniformly incorporated into the soil between the onion rows. Incorporation may be accomplished by operating a sweep-type or rolling cultivator 2 to 4 inches deep at 6 to 8 mph. Two incorporation passes are required with the first occurring within 24 hours after application or erratic weed control may result. Delay the second incorporation for a minimum of 5 days after the first. Avoid covering onions with treated soil during incorporation as injury to the crop may occur. Care should be taken to avoid mechanical injury to onion roots during incorporation.

#### Restrictions:

- Preharvest interval: Do not apply within 60 days of harvest.
- Do not apply as a preplant or preemergence treatment.
- Do not apply to muck soils.

#### Precautions:

- Reduced yields may result from use of TRIFLURALIN 4EC on onion crops weakened by diseases, improper incorporation depth, excessive moisture, high salt concentration, or drought may weaken the crop and increase the possibility of damage from TRIFLURALIN 4EC. Under these conditions reduced yields may result.

### PEAS - ENGLISH PEAS

#### TRIFLURALIN 4EC - Alone

Apply and incorporate TRIFLURALIN 4EC in the spring before planting or in the fall in advance of spring planting. Refer to instructions for fall application under Application Timing in the Product Information section of this label.

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)	
	Spring Application	Fall Application <sup>1</sup>
coarse	1.0	1.0
medium	1.0 – 1.5 <sup>2</sup>	1.25 – 1.5
fine	1.5	1.5

<sup>1</sup> TRIFLURALIN 4EC may be applied during the fall to dry and English peas in the states of Idaho, Oregon and Washington.

<sup>2</sup> Medium soils with 3% or greater organic matter - 1.5 pints

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

#### Tank Mixing or Sequential Treatments

For broader spectrum weed control, other products registered for use in dry and English peas may be applied in tank mix combination with TRIFLURALIN 4EC or as a sequential treatment following application of TRIFLURALIN 4EC. When tank mixing, use the listed rate of TRIFLURALIN 4EC. Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

### PEAS - SOUTHERN PEAS

Apply TRIFLURALIN 4EC as a preplant soil incorporated treatment.

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.5 – 2.0

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

**PEANUTS**

**TRIFLURALIN 4EC – Alone (For Use in Texas, Oklahoma, and New Mexico Only)**

Apply and incorporate TRIFLURALIN 4EC before planting, at planting or immediately after planting. When incorporating after planting, adjust equipment so as to avoid disturbance of planted seed.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5

**Tank Mixing or Sequential Treatments**

For broader spectrum weed control, other products registered for use in peanuts may be applied in tank mix combination with TRIFLURALIN 4EC or as a sequential treatment following application of TRIFLURALIN 4EC. When tank mixing, use the listed rate of TRIFLURALIN 4EC. Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

**TRIFLURALIN 4EC plus Pursuit Combinations for Weed Control in Peanuts**

TRIFLURALIN 4EC may be tank-mixed with Pursuit and applied as a preplant incorporated treatment to control additional weeds.

**Broadcast Application Rates/Acre†:**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5

†Refer to the labeling for use of Pursuit on peanuts for application rates.

Pursuit may also be used as a preemergence, “at cracking”, postemergence or sequential (split) application following preplant soil incorporated application of TRIFLURALIN 4EC. Refer to the labeling for use of pursuit on peanuts for application rates, use directions, cautions and limitations before use.

**PEPPER (TRANSPLANT ONLY)**

Apply and incorporate TRIFLURALIN 4EC prior to transplanting.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.5 – 2.0

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

**POTATOES (NOT FOR USE IN THE STATE OF MAINE)**

**Application After Planting**

Apply and incorporate TRIFLURALIN 4EC after planting but before emergence, immediately following dragoff, or after potato plants have fully emerged.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.5 – 2.0

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

**Incorporation Directions:** Set incorporation equipment so that the bed and furrow will be uniformly covered with a layer of treated soil. If the layer of treated soil is not uniform and the herbicide is concentrated over the bed, potato emergence may be retarded and stem brittleness can occur. When applying and incorporating 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. Be careful that incorporation machinery does not damage potato seed pieces or elongating sprouts.

**Split Applications Before and After Planting (for Use in Idaho, Oregon and Washington)**

On all soils apply and incorporate TRIFLURALIN 4EC at the rates shown below as split applications before planting and after planting when potato plants have fully emerged. Do not apply to soils containing 2% or more organic matter. Follow incorporation directions provided above for application to potatoes after planting.

**Broadcast Application Rates per Acre**

	TRIFLURALIN 4EC (pints)
before planting	0.75
after planting	0.75

**TRIFLURALIN 4EC Plus Eptam Herbicide Tank Mix - Post Plant Preemergence Treatment (for Use in Kansas, Minnesota, Nebraska, North Dakota, Oklahoma, South Dakota and Texas)**

TRIFLURALIN 4EC may be tank-mixed with Eptam herbicide and applied as a soil incorporated treatment to control additional weeds. Apply after planting, but before crop emergence. In areas where potatoes are normally dragged off, apply and incorporate up to or immediately following drag off. Use application rates for TRIFLURALIN 4EC specified for Applications After Planting, above. Incorporate immediately.

**Precaution:**

- Refer to the label for Eptam for application rates, additional use directions, precautions and limitations before use.

**Restriction:**

- Do not graze for feed forage to livestock from fields treated with the TRIFLURALIN 4EC plus Eptam tank mix.

**TRIFLURALIN 4EC Plus Eptam Tank-Mix - Preplant Treatment (for Use in Idaho, Oregon and Washington)**

TRIFLURALIN 4EC may be tank mixed with Eptam and applied as a soil incorporated treatment to control additional weeds. Apply before planting and incorporate immediately.

**Broadcast Application Rates per Acre**

	TRIFLURALIN 4EC (pints)
All soil textures	0.75

**Precaution:**

- Refer to the label for Eptam for application rates, additional use directions, precautions and limitations before use.

**Restrictions:**

- Do not use this tank mix both before and after planting in the same season.
- Do not graze for feed forage to livestock from fields treated with the TRIFLURALIN 4EC plus Eptam tank mix.

**Chemigation (TRIFLURALIN 4EC Only)**

TRIFLURALIN 4EC may be applied through properly equipped chemigation systems for weed control in potatoes. Refer to Chemigation section in the Product Information section of the label for TRIFLURALIN 4EC. Do not apply TRIFLURALIN 4EC through any type of irrigation system unless these directions are carefully followed.

Apply TRIFLURALIN 4EC to potatoes in 0.5 to 1 acre inch of overhead sprinkler irrigation after planting, before emergence, or immediately following dragoff or after the potato plants have fully emerged. Existing weeds must be destroyed by tillage or cultivation prior to application of TRIFLURALIN 4EC. TRIFLURALIN 4EC does not control established weeds. Incorporation is not necessary when TRIFLURALIN 4EC is applied by chemigation.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5

- Do not apply by chemigation to fine textured soils.

**Precautions:** If cultivation is required after treatment with TRIFLURALIN 4EC, avoid completely covering potato plants with treated soil. Erratic weed control may result if cultivation exposes untreated soil between rows.

## RADISH

Apply TRIFLURALIN 4EC as a preplant soil incorporated treatment.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5
fine	1.5

## SMALL GRAINS - BARLEY, DURUM, AND WHEAT

### Special Precautions for Use of TRIFLURALIN 4EC on Small Grains

Carefully follow directions for use of TRIFLURALIN 4EC on small grains to minimize potential crop stress. Under certain conditions, delayed crop emergence and or stand reduction may occur when TRIFLURALIN 4EC is applied to barley, durum, or wheat. The combined effect of certain cultural practices and unfavorable soil or environmental conditions may cause excessive crop seedling stress resulting in retarded crop growth, stand reduction, and possibly reduced yield.

#### For best results, observe the following cultural practices or precautions:

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

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

Do not exceed soil-specific application rates for TRIFLURALIN 4EC.

This is particularly important on coarse textured or low organic matter soils.

Carefully follow incorporation directions. When applying preplant incorporated treatments, operate equipment at recommended depth and speed to place TRIFLURALIN 4EC into the upper 1 to 1 1/2 inches of soil. If applied after planting, set incorporation equipment so as to avoid disturbance of planted seed.

Set drills to place seed at the depth specified in use directions. A planting depth greater than 2 1/2 inches for **spring wheat or durum** will result in increased seedling stress and decreased emergence.

#### Use only high quality seed where TRIFLURALIN 4EC is to be applied (avoid use of small seed with low starch reserves).

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

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

Soil characteristics and environmental conditions which may contribute to crop seedling stress that may be accentuated by use of TRIFLURALIN 4EC include:

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

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

#### Restriction:

Do not apply TRIFLURALIN 4EC on small grains where a dinitroaniline herbicide such as TRIFLURALIN 4EC or Sonalan® herbicide was applied at a rate greater than 0.5 lb ai per acre the previous growing season.

### Application Directions for Small Grains

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

Apply TRIFLURALIN 4EC as a preplant incorporated treatment prior to planting spring seeded barley. TRIFLURALIN 4EC may be applied to ground that has a manageable level of crop residue or has been fallowed or pre-tilled. The first incorporation is required within 24 hours after application. The second incorporation is required prior to planting to destroy emerged weeds and to insure even distribution of TRIFLURALIN 4EC in the soil surface.

#### Broadcast Application Rates/Acre:

Apply at a rate of 1 pint per acre for all soil textures regardless of organic matter content.

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

**Planting Directions:** Barley should be seeded approximately 1 1/2 inches deep.

#### Precautions:

- Carefully read and follow Special Precautions for Use of TRIFLURALIN 4EC in Small Grains before application of TRIFLURALIN 4EC.
- While use of this weed control practice may result in a stand reduction, slight stand reductions do not normally affect yield.

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

Apply TRIFLURALIN 4EC as a preplant incorporated treatment prior to planting spring seeded barley on land enrolled in acreage conservation reserve programs. Follow the soil preparation, application, and incorporation procedures for TRIFLURALIN 4EC.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.5
fine	1.5

**Planting Directions:** Barley should be seeded approximately 1 1/2 inches deep.

**Precautions:** Use of this weed control practice may result in slight stand reduction. Follow the most severe grazing restrictions imposed either by the label for TRIFLURALIN 4EC or by the USDA Acreage Conservation Reserve Program, whichever is longest. Consult the local ASCS office or other state agency to determine the period of USDA grazing restriction.

**Restriction:** Follow the most severe grazing restrictions imposed either by the label for TRIFLURALIN 4EC or by the USDA Acreage Conservation Reserve Program, whichever is longest. Consult the local ASCS office or other state agency to determine the period of USDA grazing restriction.

**Spring Application for Foxtail (Pigeongrass) Control in Spring Seeded Barley Grown Under Irrigation (Montana only)**

TRIFLURALIN 4EC may be spring applied as a preplant incorporated treatment for foxtail (pigeongrass) control in spring seeded barley grown under irrigated conditions in Montana. Make applications to ground that has a manageable trash level or has been fallowed or pretilled. The first incorporation is required within 24 hours after application. The second incorporation is required prior to planting to destroy emerged weeds and to ensure even distribution of TRIFLURALIN 4EC in treated soil.

**Broadcast Application Rate:** Apply TRIFLURALIN 4EC, at a rate of 1 pint per acre regardless of soil texture or soil organic matter content. Do not exceed this application rate as crop injury may occur.

**Incorporation Directions:**

The following tools are recommended for soil incorporation:

- 1. Chisel Plow alone or Chisel Plow with a Rod Weeder attached:** A chisel plow alone should be used for the first incorporation pass only. With rod weeder attached, the chisel plow may be used for both incorporation passes. Operate 4 to 5 inches deep and at 4 to 6 mph. A chisel plow is defined as having three rows of up to 18 inch sweeps on no greater than 12 inch centers. Stagger successive rows of sweeps to ensure that no soil is left unturned.
- 2. Tandem Disc:** Operate 3 to 4 inches deep and at 4 to 6 mph.
- 3. Field Cultivator:** Operate 3 to 4 inches deep and at 5 or more mph. A field cultivator is defined as having 3 to 4 rows of sweeps with "C" or "S" shaped shanks spaced at intervals of 7 inches or less. Stagger successive rows of sweeps to ensure that no soil is left unturned.

**Planting Directions:**

Plant barley 1 to 2 inches deep. Planting greater than 2 inches deep will result in increased seedling stress and decreased emergence.

**Irrigation Directions:**

Irrigate prior to planting, or after crop emergence only. Irrigation between planting and emergence may cause reduced crop stands or delayed emergence because of soil crusting, especially on loose friable seedbeds.

**Use Precautions:** Carefully follow Special Use Precautions for Small Grains section on this label.

**Rotational Crop Planting Restrictions:**

Plant only barley (grown under irrigated conditions), rapeseed, safflower or sunflower as a rotational crop in the year following the crop treated with TRIFLURALIN 4EC. If one of the specified rotational crops is not planted, the land should be left idle or fallow for the entire crop year following the crop treated with TRIFLURALIN 4EC.

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

Apply TRIFLURALIN 4EC as a preplant incorporated treatment for control of downy brome (cheatgrass), annual ryegrass, annual bluegrass, pacific meadow foxtail (blackgrass), henbit, and fiddleneck (tarweed). The growth, development and yield of winter wheat will not be adversely affected, provided the seed is placed below the zone of soil treated with TRIFLURALIN 4EC.

TRIFLURALIN 4EC may be applied for up to three weeks before planting.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.5
medium	1.5
fine	2.0

**Incorporation Directions:** Incorporate TRIFLURALIN 4EC with a flexible tine-tooth harrow (Flextine or Melroe) set to cut 1 to 2 inches deep and operate at 3 to 6 mph. Incorporate once within 24 hours after application and a second time in a different direction from the first prior to planting. Do not till the soil with a disc after TRIFLURALIN 4EC has been incorporated with a flexible tine harrow.

**Planting Directions:** Use only a deep furrow or semi-deep furrow drill that will place the seed below the zone of soil treated with TRIFLURALIN 4EC.

**Precautions:**

- Carefully read and follow Special Precautions for Use of TRIFLURALIN 4EC in Small Grains before application of TRIFLURALIN 4EC.
- Wheat planted in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

### Winter Wheat -- Post Plant Incorporated Treatment

Apply and incorporate TRIFLURALIN 4EC after planting, but before emergence, to control the following weeds susceptible to TRIFLURALIN 4EC in winter wheat: annual ryegrass, annual bluegrass, downy brome (cheatgrass), pacific meadow foxtail (blackgrass), fiddleneck (tarweed), and henbit.

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0 – 1.5
medium	1.5

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

**Incorporation Directions:** Incorporate TRIFLURALIN 4EC using two passes with a flex-tine or spike-tooth harrow operated at least 5 mph. Make the second incorporation pass in a different direction than the first. Set equipment to cut 1 to 1 1/2 inches deep and avoid disturbing seed. Application and first incorporation should be done in the same operation if possible. Both incorporations must be done within 24 hours.

#### Precautions:

- Carefully read and follow Special Precautions for Use of TRIFLURALIN 4EC in Small Grains before application of TRIFLURALIN 4EC.
- Wheat seed in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.
- If less than 20 inches of rainfall plus irrigation was received between planting and harvest, refer to rotation crop restrictions before planting sorghum or oats.

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

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

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.5
medium	1.5
fine	2.0

**Incorporation Directions:** Incorporate TRIFLURALIN 4EC with a flexible tine-tooth harrow (Flextine or Melroe) set to cut 1 to 2 inches deep and operate at 3 to 6 mph. Incorporate once within 24 hours after application and a second time in a different direction from the first prior to planting. Do not till the soil with a disc after TRIFLURALIN 4EC has been incorporated with a flexible tine harrow.

**Planting Directions:** Use only a deep furrow or semi-deep furrow drill that will place the seed below the zone of soil treated with TRIFLURALIN 4EC.

#### Precautions:

- Carefully read and follow Special Precautions for Use of TRIFLURALIN 4EC in Small Grains before application of TRIFLURALIN 4EC.
- Wheat planted in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

**Winter Wheat - Partial Control or Suppression of Annual Brome Species (Cheatgrass, Downy Brome, Japanese Brome, Hairy Chess) and Jointed Goatgrass in Winter Wheat (for use in Colorado, Kansas, Nebraska and Wyoming)** TRIFLURALIN 4EC may be applied as a preplant incorporated treatment for partial control or suppression of annual Brome species (cheatgrass, downy brome, Japanese brome, hairy chess) and jointed goatgrass in winter wheat in Colorado, Kansas, Nebraska, and Wyoming. Apply TRIFLURALIN 4EC anytime during a period from three (3) weeks before planting up to immediately prior to planting.

#### Broadcast Application Rates Per Acre<sup>1</sup>

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1 - 1.5
medium	1 - 1.5
fine	1.5

<sup>1</sup>Use the higher rate in the rate range where heavy weed populations are anticipated or where medium to high crop residues are present.

**Incorporation and Planting Directions:** TRIFLURALIN 4EC should be incorporated with tillage equipment such as a flexible tine-tooth harrow or springtooth harrow that mixes the soil no more than 1-2 inches deep. The grain drill (disc drill or hoe drill) can serve as the incorporation implement. Do not use discs, undercutters or field cultivators for incorporation. Incorporate one time within 24 hours after application.

Use a grain drill that will place the seed below the zone of soil into which TRIFLURALIN 4EC has been incorporated.

One pass incorporation is adequate; however, where the grain drill is used as the incorporation tool, mounting a springtooth harrow in front of the drill can enhance performance. Where a tillage tool is used to incorporate prior to planting, **the wheat must be seeded below the soil treated with TRIFLURALIN 4EC or crop injury may result.** The wheat seed should be placed at least 1 1/2 - 2 inches deep.

(continued)

**Precautions:**

- Crop injury in the form of delayed emergence and development may result from planting wheat in direct contact with treated soil.
- Do not incorporate with undercutters, field cultivators, chisel plows or discs. Any implement that incorporates TRIFLURALIN 4EC deeper than the planting depth of wheat will contribute to crop injury.
- Use of seeding equipment that does not place the seed below the TRIFLURALIN 4EC treated soil layer will result in crop injury.
- Use of TRIFLURALIN 4EC in accordance with this label may result in stand reduction.
- Heavy rainfall prior to wheat emergence can cause soil compaction and soil crusting resulting in delayed emergence, stand reduction, stunting and yield loss.

**Wheat, Durum and Barley, Spring Seeded - Fall Applied Preplant Soil Incorporated for Foxtail (Pigeongrass) Control (for Use in Minnesota, North Dakota and South Dakota)**

Apply TRIFLURALIN 4EC in the fall for foxtail (pigeongrass) control during the following growing season. Incorporate one time within 24 hours. Incorporate a second time before planting to destroy existing weeds and insure a uniform distribution of TRIFLURALIN 4EC in treated soil. TRIFLURALIN 4EC may be applied to ground that has a manageable level of crop residue, or has been fallowed or pre-tilled.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse and medium	1.0
fine	1.5

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

**Planting Directions:** Set equipment to place seed approximately 1 1/2 inches deep.

**Precautions:** Carefully read and follow Special Precautions for Use of TRIFLURALIN 4EC in Small Grains before application of TRIFLURALIN 4EC. While use of this control practice may result in a stand reduction, slight stand reductions do not normally affect yield.

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

Apply and incorporate TRIFLURALIN 4EC after planting, but before emergence, to control foxtail (pigeongrass) in spring wheat, durum, and barley.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.0
fine	1.5

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

**Incorporation Directions:** Incorporate TRIFLURALIN 4EC using two passes with a flex-tine or diamond harrow operated at least 5 mph. Make the second incorporation pass in a different direction than the first. Set equipment to cut 1 to 1 1/2 inches deep and avoid disturbing seed. Make the application and first incorporation in the same operation if possible. Both incorporations must be done within 24 hours.

**Precautions:**

- Carefully read and follow Special Precautions for Use of TRIFLURALIN 4EC in Small Grains before application of TRIFLURALIN 4EC.
- Wheat seed in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

**SOYBEANS****TRIFLURALIN 4EC - Alone**

Apply and incorporate TRIFLURALIN 4EC in the spring before planting or in the fall in advance of spring planting. See instructions for fall application under Application Timing in the Product Information section of this label.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)	
	Spring Application	Fall Application <sup>1</sup>
coarse	1.0	2.0
medium	1.5	2.0
fine	2.0	2.5

<sup>1</sup> Fall Application Rates for States Including: Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri (Bootheel), North Carolina, Oklahoma, South Carolina, Tennessee, and Texas.

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

For soybeans grown in states other than those listed above, fall apply TRIFLURALIN 4EC at broadcast rates listed for spring preplant incorporated treatment.

**Precautions:** Plant soybeans after early season adverse weather conditions have passed, especially when using higher rate programs. Cool, wet weather early in the growth cycle causes additional stress on soybean plants which may result in reduced stand, delayed maturity and reduced yield.

**Restriction:** Do not fall-apply this product to soybeans planted in soils where rice was grown the previous year.

**Tank Mix Overlay and Postemergence Information**

For broader spectrum weed control, other products registered for use in soybeans may be applied in tank mix combination with TRIFLURALIN 4EC or as a sequential treatment following application of TRIFLURALIN 4EC. When tank mixing, use the listed rate of TRIFLURALIN 4EC. Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

**Special Use Programs**

**1. Fall Application Prior to Planting Soybeans in the Spring (Arkansas, Louisiana and Mississippi)** Apply TRIFLURALIN 4EC as a preplant soil incorporated treatment in the fall prior to planting soybean in the spring.

**Broadcast application rates for fall application prior to spring planted soybean:**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	2.0
medium	2.0 – 3.0
fine	2.5 – 4.0

**Note:** Use the higher rate in the rate range under conditions of abundant rainfall and mild winter temperatures.

**Restriction:** In the season following this treatment, plant only those crops for which this product can be applied as a preplant incorporated treatment.

**2. Soybeans - Chemigation**

TRIFLURALIN 4EC may be applied through properly equipped chemigation systems for weed control in soybeans. Refer to Application by Chemigation in the Product Information section of this label for use directions for chemigation. Do not apply TRIFLURALIN 4EC through any irrigation system unless these directions are carefully followed.

Apply TRIFLURALIN 4EC in sprinkler irrigation equal to 1/2 to 1 inch of water. Plant and apply TRIFLURALIN 4EC as soon as possible after the last tillage operation. TRIFLURALIN 4EC must be applied within two days after planting and prior to crop emergence.

TRIFLURALIN 4EC does not control established weeds. Soil incorporation is not required when TRIFLURALIN 4EC is applied through chemigation systems.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.5 – 2.0
medium	1.5 – 2.0
fine	2.0 – 2.5

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

**Cultivation:** Soil treated by chemigation with TRIFLURALIN 4EC may be shallow cultivated without reducing weed control activity.

**3. Soybeans - Weed Control Under Reduced or Conservation Tillage**

TRIFLURALIN 4EC can be applied either in the fall or in the spring as a preplant incorporated treatment for weed control in soybeans grown under reduced or conservation tillage conditions. Make only one application per crop cycle.

Apply to tilled land or standing or chopped stubble from the previous season's crop. The first incorporation of TRIFLURALIN 4EC must occur within 24 hours. For the first incorporation, a tandem disc or combination tool that can thoroughly mix TRIFLURALIN 4EC into the top 2 to 3 inches of the final seedbed while leaving the desired amount of plant residue on the soil surface is recommended. For fall or spring application, the second incorporation can occur any time prior to planting or at planting with tillage equipment that provides uniform soil mixing used in conjunction with no-till planters.

**Application with Dry Bulk Fertilizers**

Dry bulk fertilizers impregnated or coated with TRIFLURALIN 4EC may be applied as a preplant incorporated treatment. See instructions for Application with Dry Bulk Fertilizer in the Product Information section of this label. Under reduced or conservation tillage conditions, uniformly applied dry bulk fertilizers impregnated with TRIFLURALIN 4EC provide weed and grass control equal to or better than TRIFLURALIN 4EC applied in liquid sprays. Two incorporation passes are required when TRIFLURALIN 4EC is applied with dry bulk fertilizer. For best results with spring applications, incorporate once within 24 hours after application and a second time at least 5 days later.



### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)	
	Spring Applied	Fall Applied
coarse	1.0 – 1.5	1.5 – 2.0
medium	1.5 – 2.0	2.0 – 2.5
fine	2.0 – 2.5	2.5 – 3.0

Use the higher rate in the rate range where higher crop residues are present or where dense weed populations are anticipated.

**Precautions:** To be effective, TRIFLURALIN 4EC must be mixed thoroughly in the top 2 to 3 inches of soil in the final seedbed. Weed control may be poor or erratic where soil conditions or heavy crop residues do not permit thorough soil mixing.

#### 4. Soybeans - Fall Panicum Control

Apply TRIFLURALIN 4EC as a preplant incorporated treatment at a broadcast rate of 2 pints per acre on coarse and medium soils.

#### 5. Soybeans - Pigweed and Seedling Johnsongrass Control

Apply TRIFLURALIN 4EC as a preplant incorporated treatment.

#### Broadcast Application Rates per Acre:

In Alabama, Arkansas, Florida, Georgia, Kansas, Louisiana, Mississippi, Missouri, Nebraska, North Carolina, Oklahoma, South Carolina, Tennessee, and southern Virginia, apply TRIFLURALIN 4EC at the following broadcast rates:

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0 – 1.5
medium	1.5 – 2.0
fine	2.0 – 2.5

**Exception:** Louisiana, 3 pints per acre on fine soils.

#### 6. Soybeans - Additional Weed and Grass Control in Gulf Coast Counties of Texas

Apply TRIFLURALIN 4EC as a preplant incorporated treatment up to two weeks before planting.

**Broadcast Application Rates per Acre:** For soybeans grown in Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller, and Wharton counties of the Texas Gulf Coast, apply TRIFLURALIN 4EC at the following broadcast rates:

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.5
medium	2.0
fine	3.0

#### 7. Soybeans - Itchgrass (Raoulgrass) Suppression

Apply TRIFLURALIN 4EC as a preplant incorporated treatment or at layby.

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

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)	
	Preplant Incorporated	Layby Application
medium	3.0	1.0
fine	3.0	2.0

#### 8. Soybeans - Charcoal Soils in Arkansas, Louisiana, and Mississippi

Newly cleared land often contains high organic matter (5 to 10%) and charcoal from burning debris. Charcoal and organic matter tends to bind TRIFLURALIN 4EC and reduce weed control activity. Under these conditions, higher rates of TRIFLURALIN 4EC are necessary for weed control. Increased rates, however, can cause crop injury if charcoal or organic matter is not present to bind some of the TRIFLURALIN 4EC. In the burn row a high level of charcoal is usually present. Consequently, poor weed control may result, even if an increased rate of TRIFLURALIN 4EC is used. Follow listed application and incorporation procedures for TRIFLURALIN 4EC.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.5 – 2.5
medium	2.5
fine	3.0

**9. Soybeans - Red Rice Control in Arkansas, Louisiana, Mississippi, and Texas Only**

Suppression or partial control of red rice can be obtained from a two-year treatment program which consists of a maximum rate application the first year followed by application in the second year at normal rates indicated for soil texture, organic matter or charcoal content. Apply and incorporate TRIFLURALIN 4EC in the spring before planting. Follow the soil preparation and incorporation procedures for TRIFLURALIN 4EC.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)	
	Application Year 1	Application Year 2
coarse	2.0	1.0
medium	3.0	1.5
fine	4.0	2.0
coarse soils with 2-5% organic matter	3.0	1.5
soils with 5-10% organic matter	4.0	2.0 – 2.5

**In Arkansas, Louisiana and Mississippi, if a combination of high soil organic matter (5 to 10%) and charcoal are present, apply TRIFLURALIN 4EC at the following broadcast rates:**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.5 – 2.5
medium	2.5
fine	3.0

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

**Precaution:** Crop Rotation: The recommendation for red rice control in soybeans is a two-year program. In the first year following a maximum rate application, plant only soybeans. During the second year, after applying TRIFLURALIN 4EC at the normal rate indicated for soil texture and charcoal level, plant only those crops for which TRIFLURALIN 4EC is registered as a preplant treatment or crop injury may result. Rice may be planted during the third year following application of normal use rates in year two.

**10. Soybeans - Rhizome Johnsongrass Control in Eastern United States and the State of Texas**

Rhizome johnsongrass control with TRIFLURALIN 4EC requires maximum rate application for two consecutive years. Commercially acceptable control cannot be obtained with only 1 year of maximum rate use of TRIFLURALIN 4EC. Carefully follow the special use directions which follow.

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

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	2.0
medium	3.0
fine	4.0

- Coarse soils with 2 to 5% organic matter - 3 pints
- Soils with 5 to 10% organic matter - 4 pints

**Spring Application:** Apply TRIFLURALIN 4EC any time before planting in the spring for two consecutive years.

**Fall Application:** Apply TRIFLURALIN 4EC after October 15 for two consecutive years.

**Split Application:** Apply TRIFLURALIN 4EC at the broadcast rates indicated in the following table both spring and fall for two consecutive years.

Soil Texture	TRIFLURALIN 4EC Spring + Fall (pints)
coarse	1.0 + 1.0
medium	1.5 + 1.5
fine	2.0 + 2.0
coarse soils with 2-5% organic matter	1.5 + 1.5
soils with 5-10% organic matter	2.0 + 2.0

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

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

**Precautions:** In the season following a maximum rate treatment, plant only rice and those crops to which TRIFLURALIN 4EC can be applied as a preplant treatment or crop injury may result.

#### 11. Soybeans - Wild Cane (Shattercane) Control

Follow the soil preparation and application procedures for TRIFLURALIN 4EC. Wild cane (shattercane) can germinate throughout the growing season and from greater soil depth than most other weed seeds. Commercially acceptable control of wild cane can be obtained by using increased rates of TRIFLURALIN 4EC.

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	2.0
fine	2.5

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

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

#### 12. TRIFLURALIN 4EC plus Scepter Combinations in Soybeans (Not For Use In California)

TRIFLURALIN 4EC herbicide plus Scepter herbicide may be applied as a preplant incorporated tank mix treatment. Scepter may also be applied as a preemergence overlay treatment or as an early postemergence treatment following a preplant incorporated application of TRIFLURALIN 4EC.

#### Special Use Precautions

- Use of Scepter in combination with TRIFLURALIN 4EC or as a sequential treatment following application of
- TRIFLURALIN 4EC is subject to a number of special precautions and limitations required by the label for Scepter. Carefully read, understand and follow all use precautions, rotational crop restrictions and other limitations in the label for Scepter.
- The user must comply with all applicable use directions, precautions and limitations imposed by the TRIFLURALIN 4EC and Scepter product labels.

#### Restriction:

- Use of Scepter is limited to certain states. Do not use the TRIFLURALIN 4EC plus Scepter tank mix applied preplant incorporated, or Scepter applied as a preemergence overlay or postemergence treatment following TRIFLURALIN 4EC preplant incorporated, in the "Northern Use Area" as defined by the Scepter product label.

#### Tank Mix of TRIFLURALIN 4EC plus Scepter - Preplant Incorporated

Apply the tank mix of TRIFLURALIN 4EC plus Scepter as a preplant incorporated treatment up to 45 days before planting soybeans. Apply and shallowly incorporate into the soil within 24 hours. Follow soil preparation, mixing and application procedures described in the label for TRIFLURALIN 4EC. Use incorporation equipment that provides uniform incorporation into the top 2 inches of soil. When using a disc, field cultivator, or rolling cultivator, a second pass must be made at an angle to the first pass to ensure thorough incorporation. If soybeans are planted on beds, apply and incorporate after bed formation.

#### TRIFLURALIN 4EC Preplant Incorporated Followed by Scepter Preemergence Overlay Application

Apply TRIFLURALIN 4EC as a preplant incorporated treatment. Follow soil preparation, application and incorporation procedures described in the label for TRIFLURALIN 4EC. Apply Scepter to the soil surface after planting but before the crop emerges. Rainfall or overhead sprinkler irrigation is necessary to move the Scepter overlay treatment into the weed germination zone. The amount of rainfall or sprinkler irrigation required depends on existing soil moisture, soil texture and organic matter content. Sufficient water to moisten the soil to a depth of 2 inches is normally adequate. If adequate moisture is not received within 7 days after a surface applied treatment, a cultivation is recommended to control escaped weeds.

### Weeds Controlled (Tank Mix or Overlay)

The tank mix of TRIFLURALIN 4EC plus Scepter or TRIFLURALIN 4EC followed by overlay treatments of Scepter control the weeds listed on the label for TRIFLURALIN 4EC alone plus these additional weeds:

cocklebur, common jimsonweed mallow, venice morning-glory (pitted) (smallflower) mustard species nightshade, eastern black <sup>1</sup>	pigweed (Palmer) (smooth) (tall waterhemp) poinsettia, wild prickly sida (teaweed)	ragweed (common) (giant) <sup>1</sup> smartweed (ladysthumb) (pennsylvania) sunflower, common velvetleaf <sup>1</sup>
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<sup>1</sup> Eastern black nightshade, giant ragweed, and velvetleaf are controlled by preplant incorporated treatments only.

TRIFLURALIN 4EC plus Scepter tank mix or Scepter overlay treatments will aid in the control and reduce competition from weeds in the following list. Control of these weeds may be erratic, ranging from poor to excellent, depending upon soil temperature, time of weed germination, depth of weed seed in soil and the amount and timing of soil moisture. Control may be improved with timely cultivation.

morning-glory <sup>2</sup> (entireleaf) (ivyleaf) (tall)	nutsedge, yellow <sup>3</sup> panicum, fall <sup>4</sup> shattercane <sup>4</sup>
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<sup>2</sup> For best activity on morning-glory species, use tank mix preplant incorporated treatments.

<sup>3</sup> Use tank mix preplant incorporated treatments only to aid in control of yellow nutsedge.

<sup>4</sup> TRIFLURALIN 4EC alone control fall panicum and shattercane at increased rates. See the label for TRIFLURALIN 4EC for special instructions.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)	Scepter Tank Mix or Overlay (pints)
coarse	1.0	0.67
medium	1.5	0.67
fine	2.0	0.67

### TRIFLURALIN 4EC Preplant Incorporated Followed by Scepter Postemergence Application

Apply TRIFLURALIN 4EC as a preplant incorporated treatment. Additional weeds tolerant to TRIFLURALIN 4EC may be controlled using a post emergence application of Scepter. Consult the Scepter product label for application rates, additional weeds controlled, application directions and precautions before use.

### 13. Enhanced Control of Broadleaf Signalgrass with TRIFLURALIN 4EC plus Dual Tank Mix

Apply TRIFLURALIN 4EC plus Dual® herbicide tank-mix as a preplant incorporated treatment for enhanced control of broadleaf signalgrass in soybeans.

#### Broadcast Application Rates/Acre

Soil Texture	Soils with 0-2% Organic Matter	
	TRIFLURALIN 4EC (pints)	Dual 8E (pints)
coarse	1.0	1.25 – 1.5
medium	1.5	1.5 – 2.0
fine	2.0	2.0 – 2.5

- Coarse and medium soils with 2-5% organic matter - 1.5 pints of TRIFLURALIN 4EC

- Fine soils with 2-5% organic matter - 2.0 pints of TRIFLURALIN 4EC

**Note:** Follow all applicable use directions, precautions and limitations in the product label for Dual herbicide.

### 14. Control of DNA-Resistant Goosegrass with TRIFLURALIN 4EC Plus Dual Tank Mix

Apply TRIFLURALIN 4EC plus Dual® herbicide tank-mix as a preplant incorporated treatment to control DNA resistant goosegrass in soybeans.

**Broadcast Application Rates/Acre**

Soil Texture	Soils with 0-2% Organic Matter	
	TRIFLURALIN 4EC (pints)	Dual 8E (pints)
coarse	1.0	1.25
medium	1.5	1.5
fine	2.0	2.0

- Coarse and medium soils with 2-5% organic matter - 1.5 pints of TRIFLURALIN 4EC
- Fine soils with 2-5% organic matter - 2.0 pints of TRIFLURALIN 4EC

**Note:** Follow all applicable use directions, precautions and limitations in the product label for Dual herbicide.

**SPEARMINT AND PEPPERMINT**

Apply to established spearmint and peppermint as a soil incorporated treatment, by chemigation, or surface applied and watered-in. Apply during dormancy or semi-dormancy in late winter to spring or in the fall after harvest. TRIFLURALIN 4EC does not control established weeds, therefore, application must be made prior to germination time of target weeds (refer to product label for labeled weeds). Late winter to early spring application will control susceptible weeds that germinate in the spring and early summer and fall application will control susceptible fall germinating weeds. If mechanically incorporated, use equipment that will provide thorough soil mixing with minimal damage to the crop stand (refer to product label for incorporation equipment recommendations and labeled weeds).

TRIFLURALIN 4EC may be surface applied for annual grass control in established mint using chemigation, or ground, or aerial broadcast application equipment.

**Chemigation:** For chemigation application, apply at the specified broadcast application rates. See instructions for chemigation in the Application Methods section of this label.

**Surface Applications Activated by Rainfall or Irrigation:** Surface applications of TRIFLURALIN 4EC may be activated by rainfall, sprinkler irrigation, or flood irrigation. Rainfall or a single overhead sprinkler irrigation of 0.5 acre inch or more is required to activate TRIFLURALIN 4EC. If rainfall or irrigation has not occurred within 3 days after application, mechanical incorporation is recommended to activate the treatment.

**Broadcast Application Rates:**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25
fine	1.50

**SUGAR BEETS****TRIFLURALIN 4EC - Alone**

Apply TRIFLURALIN 4EC as an over-the-top spray and incorporate. Apply from the time the first true leaves have formed until plants are 6 inches tall.

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.25 – 1.5

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

**Precaution:** Cover exposed beet roots with soil before application of TRIFLURALIN 4EC to reduce the possibility of girdling.

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

A tine-tooth harrow (Flextine or Melroe) can be used to incorporate TRIFLURALIN 4EC in sugar beets. Incorporation with tine-tooth harrow requires two passes in opposite directions over the same set of rows. Set the harrow to cut 1 to 2 inches deep and operate at 3 to 6 mph. Set incorporation equipment carefully to avoid damage to sugar beet tap root. Use application procedures and broadcast application rates listed in preceding section.

**Tank Mixing**

For broader spectrum weed control, other products registered for use in sugar beets may be applied in tank mix combination with TRIFLURALIN 4EC or as a sequential treatment following application of TRIFLURALIN 4EC. When tank mixing, use the listed rate of TRIFLURALIN 4EC. Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

## SUGARCANE

Apply and incorporate TRIFLURALIN 4EC twice a year. Make the first application of TRIFLURALIN 4EC in the fall on firmly packed beds immediately after the seed pieces are planted. Make the second application of TRIFLURALIN 4EC in the spring before or shortly after the cane emerges. Loosen rain-packed beds 2 to 3 inches deep before the spring application. Take care that incorporation equipment does not damage the seed pieces or emerging shoots.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
all textures	2.0 – 4.0 <sup>1</sup>

<sup>1</sup> Application rate within rate range may be adjusted according to weed pressure.

### Postplant Application for Control of Most Annual Grasses, Including Guineagrass (for Use in Hawaii)

Surface apply TRIFLURALIN 4EC after planting (for plant cane) or after harvesting (for ratoon cane). For best results in plant cane, the soil surface should be smooth and finely tilled. Apply TRIFLURALIN 4EC as soon as possible after tillage and planting before germination and emergence of grass weeds. For optimum efficacy in ratoon cane, minimize surface residue from previous crop before applying. Apply TRIFLURALIN 4EC just before anticipated rainfall in non-irrigated and furrow-irrigated sugarcane. Apply 1/2 inch or more irrigation in drip-irrigated or sprinkler-irrigated sugarcane as soon as possible after applying TRIFLURALIN 4EC.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
all textures	6.0 – 8.0

### Repeat Applications:

Subsequent germination of grass weeds may occur prior to the development of a full dense canopy of sugarcane. If this occurs, additional grass weed establishment is strongly suppressed. One or two additional applications of TRIFLURALIN 4EC can be applied to maintain weed control during the early crop development period. For repeat applications, direct the spray to the soil surface to minimize interception of the herbicide by the crop.

### Restrictions:

- Do not apply TRIFLURALIN 4EC as a postplant surface applied treatment within 180 days of harvest.

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

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

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
all textures	2.0 – 4.0 <sup>1</sup>

<sup>1</sup> Application rate within rate range may be adjusted according to weed pressure.

### Itchgrass (Raoulgrass) Control (for Use in Louisiana)

Apply and incorporate TRIFLURALIN 4EC on plant or ratoon cane. Follow use directions in preceding section for layby application.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
all textures	2.0 – 4.0

## TOMATO

Apply TRIFLURALIN 4EC to direct-seeded tomato as a directed spray between rows and beneath plants and incorporate at the time of blocking or thinning. For transplant tomatoes, apply and incorporate before transplanting or apply post-plant as a directed spray to the soil between the rows and beneath plants and incorporate.

### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.5 – 2.0

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

## TREE AND VINE CROPS - CITRUS, STONE FRUITS, NUT TREES, AND GRAPES

### New Plantings of Citrus, Stone Fruits, and Nut Trees

For new plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine, and walnut trees, apply and incorporate TRIFLURALIN 4EC before transplanting.

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0
medium	1.25 – 1.5
fine	1.25 – 2.0

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

### New Plantings of Grapes

Apply and incorporate TRIFLURALIN 4EC before transplanting.

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
coarse	1.0 – 1.5
medium	1.5 – 3.0
fine	3.0 – 4.0

- Soils with 2 to 10% organic matter - 4 pints
- Use lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

**Restriction:** Do not use more than 2 pints per acre on mist propagated grape rootings.

**Pre-harvest Interval:** Do not apply to vineyards within 60 days of harvest.

### Established Non-Bearing and Bearing Citrus, Stone Fruits, Nut Trees, and Grapes

TRIFLURALIN 4EC may be applied in established non-bearing and bearing grapes and plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees. In established plantings, apply and incorporate TRIFLURALIN 4EC prior to periods of weed germination or immediately after existing weeds are controlled by tillage or herbicide treatment. Apply as a soil directed spray and incorporate using methods not injurious to the crop. Do not apply to grapes within 60 days of harvest.

#### Broadcast Application Rates per Acre

Soil Texture	TRIFLURALIN 4EC (pints)
all textures	2.0 – 4.0

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

TRIFLURALIN 4EC may be applied to non-bearing citrus trees through irrigation water rings to provide preemergence control of labeled weeds. (Use Only in the State of Florida)

**Mixing:** Mix at a rate of 12 fluid ounces of TRIFLURALIN 4EC per 500 gallons of water. Agitate until uniformly dispersed in tank.

**Application:** Apply 10 gallons of the mixture per four foot diameter water ring per tree. Application should be made at the second or third watering and should not be applied in combination with any other pesticide.

### Special Use Programs Rhizome Johnsongrass Control - Special Two-Year Use Program

TRIFLURALIN 4EC may be applied for two consecutive years in a special use program to control rhizome johnsongrass in established grapes and in plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, plum, prune, tangerine, and walnut trees. Do not apply to grapes within 60 days of harvest.

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

#### Broadcast Application Rates per Acre

The following application rate must be applied for two consecutive years:

Soil Texture	TRIFLURALIN 4EC (pints)
all textures	4.0

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

**Cultivation:** Some johnsongrass plants will escape. Timely cultivations are necessary to obtain commercially acceptable control. Commercially acceptable control cannot be obtained with only a single year use of TRIFLURALIN 4EC.

**Precautions:** If treated grapes and orchards are diverted to other crop uses, then in the next cropping season plant only those crops for which TRIFLURALIN 4EC has been registered as a preplant incorporated treatment.

**Restrictions:**

- Do not use the 4 pint rate on new plantings or crop injury may result.
- Do not interplant orchards or grapes with other crops.

**Bindweed Control in California**

TRIFLURALIN 4EC can be applied using a specially equipped spray blade for the control of field bindweed in grapes and in plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerine, and walnut trees.

**Soil Preparation:** Destroy existing weeds with soil tillage before applying TRIFLURALIN 4EC to prevent interference with operation of the spray blade.

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

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

**Broadcast Application Rates per Acre**

Soil Texture	TRIFLURALIN 4EC (pints)
all textures	4.0

**Precautions:** Some soils may develop cracks as they dry after rainfall or irrigation. Field bindweed may emerge if the cracks extend through the layer of TRIFLURALIN 4EC. 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.

**Chemigation in Established Plantings of Tree and Vine Crops**

TRIFLURALIN 4EC may be applied through sprinkler irrigation systems for weed control in certain fruit and nut orchards or vineyards. Follow all label instructions for chemigation in the Product Information section of this label before applying.

**Application Instructions**

- Apply TRIFLURALIN 4EC at a rate of 2.0 to 4.0 pints per broadcast acre.
- Total chemigation period for TRIFLURALIN 4EC should not exceed 4 hours.
- Application of TRIFLURALIN 4EC through irrigation systems should be used as a supplemental weed control practice.
- Do not apply when wind speed favor drift beyond the area intended for treatment.
- Calibration and distribution may be more accurately achieved by injecting a larger volume of a more dilute solution. If desired, dilute TRIFLURALIN 4EC with water prior to injection and mix thoroughly. During chemigation, maintain agitation in the supply tank at all times.
- Sprinkler systems should be calibrated to deliver a volume of 4-50 gallons per hour per emitter.
- Inject TRIFLURALIN 4EC into the irrigation system during the middle of the irrigation cycle. The application interval should be such that at one period of time during the injection, the first and last emitters in the system are simultaneously emitting water containing TRIFLURALIN 4EC. After application is complete, flush equipment with clean water and then continue to irrigate for one to two hours.

**Restrictions:**

- Do not apply to vineyards within 60 days of harvest.
- Do not allow treated irrigation water to contact the fruit or foliage.
- To prevent ground water contamination, follow all irrigation system requirements.

**Chemigation System Calibration (Sample Calculations)**

**A. Broadcast Application:**

- Assume, in this example, 20 acres are to be covered by a chemigation treatment.
- Product required, assuming a rate of 4.0 pints/acre, is 80 pints (20 acres x 4.0 pt/acre = 80 pints = 10 gallons)
- Inject 10 gallons of TRIFLURALIN 4EC into the irrigation system over a time period not to exceed 4 hours.

**B. Non-Broadcast Application:**

- Calculation of use rate is based on wetted area around each emitter or sprinkler head.
- Treated area per emitter = A (A = 3.14 x radius x radius)

*Example:* If the average distance from the emitter to the perimeter of the wetted area = 36 inches, then: A = 3.14 x 36" x 36" - 4069.4 square inches

- Area in square feet wetted in each = B

$$B = A \times \frac{\text{Emitters/acre}}{144}$$

*Example:* If there are 200 emitters per acre, then:

$$B = \frac{4069.4 \times 200}{144} = 5651.9 \text{ square feet}$$

(continued)



- Total area in square feet wetted by system = C  
C = B x acres covered by the irrigation system  
*Example:* If the system covers 20 acres, then:  
C = 5651.9 square feet x 20 = 113,038 square feet
- Total area, in acres, wetted by system = D  
D = C = 113,038 = 2.595 acres  
43,560 43,560

- The amount of TRIFLURALIN 4EC to be injected into the irrigation system = D x rate per acre

*Example:* If the desired rate is 4.0 pints/acre, then:

2.595 x 4.0 = 10.4 pints of TRIFLURALIN 4EC injected into the irrigation system over a time period not to exceed 4 hours

**Control of Annual Grasses and Broadleaf Weeds in Nursery Stock, Ornamental Trees, Ornamental Woody Shrubs, Ornamental Groundcovers, Roses, Established Flowers, Vegetable Gardens and Under Paved Surfaces**

TRIFLURALIN 4EC will not control DNA-resistant green foxtail.

For the uses on this supplemental labeling, do not aerially apply TRIFLURALIN 4EC or apply TRIFLURALIN 4EC through any type of irrigation system.

**ORNAMENTALS**

TRIFLURALIN 4EC may be used on the following non-bearing, ornamental species:

Common Name	Scientific Name
<b>Woody Shrubs</b>	
andromeda, Japanese	<i>Pieris japonica</i>
arborvitae, American	<i>Thuja occidentalis</i>
azalea	<i>Rhododendron</i> spp.
barberry, Japanese	<i>Berberis thunbergii</i>
barberry, mento	mento <i>Berberis mentorensis</i>
boxwood, common	<i>Buxus sempervirens</i>
boxwood, harlands	<i>Buxus harlandi</i>
boxwood, littleleaf	<i>Buxus microphylla</i>
camellia, Japanese	<i>Camellia japonica</i>
camellia, sasanqua	<i>Camellia sasanqua</i>
cherrylaurel, American	<i>Prunus caroliniana</i>
cinquefoil <i>Potentilla</i> spp.	<i>Potentilla</i> spp.
cleyera, Japanese	<i>Cleyera japonica</i>
cotoneaster, cranberry	<i>Cotoneaster apiculata</i>
cotoneaster, zabel	<i>Cotoneaster zabelii</i>
deutzia	<i>Deutzia</i> spp.
elaeanthus, silverberry	<i>Elaeagnus pungens</i>
euonymus, spreading	<i>Euonymus kiautschovica</i>
euonymus, winged	<i>Euonymus alatus</i>
euonymus, wintercreeper	<i>Euonymus fortunei</i>
firethorn	<i>Pyracantha</i> spp.
forsythia	<i>Forsythia</i> spp.
guava, pineapple	<i>Feijoa sellowiana</i>
hawthorn, India	<i>Rhamnus indica</i>
holly	<i>Ilex</i> spp.
honeysuckle.	<i>Lonicera</i> spp.
juniper	<i>Juniperus</i> spp.
laurel, mountain	<i>Kalmia latifolia</i>
lilac, common	<i>Syringa vulgaris</i>
mockorange	<i>Philadelphus</i> spp.
pittosporum, Japanese	<i>Pittosporum tobira</i>
privet	<i>Ligustrum</i> spp.
redcedar, eastern	<i>Juniperus virginiana</i>
rhododendron	<i>Rhododendron</i> spp.
spiraea, vanhoutte	<i>Spiraea vanhouttei</i>
viburnum	<i>Viburnum</i> spp.
weigela.	<i>Weigela</i> spp.
willow	<i>Salix</i> spp.
yew, anglojap	<i>Taxus media</i>
yew, Japanese	<i>Taxus cuspidate</i>
yewpine	<i>Podocarpus macrophyllus</i>

Common Name	Scientific Name
<b>Trees</b>	
almond	<i>Prunus dulcis</i>
apple, crabapple	<i>Malus spp.</i>
apricot	<i>Prunus armeniaca</i>
ash, white	<i>Fraxinus americana</i>
baldcypress	<i>Taxodium distichum</i>
birch, European white	<i>Betula pendula</i>
blackgum	<i>Nyssa sylvatica</i>
cherry	<i>Prunus spp.</i>
chestnut, Chinese	<i>Castanea mollissima</i>
cottonwood	<i>Populus deltoides</i>
dogwood, flowering	<i>Cornus florida</i>
dogwood, kousa	<i>Cornus kousa</i>
Douglas fir	<i>Pseudotsuga menziesii</i>
fir, balsam	<i>Abies balsamea</i>
hemlock, Canada	<i>Tsuga canadensis</i>
honey locust	<i>Gleditsia triacanthos</i>
larch, Japanese	<i>Larix kaempferi</i>
locust, black	<i>Robinia pseudoacacia</i>
maple, Norway	<i>platanoides</i>
maple, red	<i>Acer rubrum</i>
maple, silver	<i>Acer saccharinum</i>
maple, sugar	<i>Acer saccharum</i>
oak, pin	<i>Quercus palustris</i>
oak, red	<i>Quercus rubra</i>
oak, scarlet	<i>Quercus coccinea</i>
peach	<i>Prunus persica</i>
pine, Austrian	<i>Pinus nigra</i>
pine, eastern white	<i>Pinus strobus</i>
pine, Japanese black	<i>Pinus thunbergiana</i>
pine, loblolly	<i>Pinus taeda</i>
pine, red	<i>Pinus resinosa</i>
pine, Scotch	<i>Pinus sylvestris</i>
planetree, London	<i>Platanus acerifolia</i>
plum	<i>Prunus spp.</i>
redbud, eastern	<i>Cercis canadensis</i>
spruce, Colorado	<i>Picea pungens</i>
spruce, Norway	<i>Picea abies</i>
spruce, white	<i>Picea glauca</i>
sweetgum	<i>Liquidambar styraciflua</i>
sycamore	<i>Platanus occidentalis</i>
tuliptree	<i>Liriodendron tulipifera</i>
walnut, black	<i>Juglans nigra</i>

Common Name	Scientific Name
<b>Groundcover Plantings</b>	
aaronsbeard	<i>Hypericum calycinum</i>
bellflower, adriatic	<i>Campanula elatines</i>
bellflower, poscharsky	<i>Campanula poscharskyana</i>
ceanothus	<i>Ceanothus spp.</i>
coreopsis	<i>Coreopsis spp.</i>
cotoneaster	<i>Cotoneaster spp.</i>
coyote brush	<i>Baccharis pilularis</i>
crown vetch	<i>Coronilla vana</i>
daisy, trailing African	<i>Osteospermum fruticosum</i>
fern, asparagus	<i>Asparagus densiflorus</i>
gazania.	<i>Gazania spp.</i>
germander	<i>Teucrium chamaedrys</i>
ice plant, largeleaf	<i>Carpobrotus edulis</i>
ivy, Algerian	<i>Hedera canariensis</i>
ivy, English	<i>Hedera helix</i>
lily-of-the-Nile	<i>Agapanthus spp.</i>
lilyturf, bigblue	<i>Liriope muscari</i>
marigol.	<i>Tagetes spp.</i>
myoporum	<i>Myoporum laetum</i>
plumbago, dwarf	<i>Ceratostigma plumbaginoides</i>
rockrose	<i>Cistus spp.</i>
rosemary	<i>Rosmarinus officinalis</i>
rupturewort	<i>Herniaria glabra</i>
snow-in-summer	<i>Cerastium tomentosum</i>
speedwell.	<i>Veronica spp.</i>
St. Johnswort	<i>Hypericum coris</i>
stonecrop (sedum)	<i>Sedum spp.</i>
strawberry, beach	<i>Fragaria chiloensis</i>
thrift	<i>Armeria maritima</i>
verbena	<i>Verbena spp.</i>
wirevine, creeping	<i>Muehlenbeckia axillaris</i>
yarrow, woolly	<i>Achillea tomentosa</i>
zoysiagrass	<i>Zoysia tenuifolia</i>

#### ROSES AND OTHER ESTABLISHED FLOWERS

African daisy	marigold
aster (perennial)	marigold, cape
balsam	morningglory
blackeyed susan	nasturtium
calendula	nicotiana
carnation	petunia
centaurea, velvet	phlox
chrysanthemum	pincushion flower
coreopsis	poppy, California
cornflower	portulaca
cosmos	rose
dahlia	salvia
salvia	shasta daisy
dianthus	snapdragon
dusty miller	snow-on-the-mountain
floss flower	stock
forget-me-not	sunflower
four o'clock	sweet alyssum
gaillardia	sweet pea
gladiolus	sweet sultan
golden glow	sweet william
impatiens	vinca
ixora	yarrow
lobelia	zinnia
lupine	

### Incorporation Directions

Apply and incorporate TRIFLURALIN 4EC prior to planting new nursery stock liners, ornamentals, trees and woody shrubs, and gladioli. (Gladioli corms less than 1 inch in diameter may be injured by preplant applications of TRIFLURALIN 4EC.) TRIFLURALIN 4EC may also be applied to established plantings by using a directed spray to the soil between the rows and beneath the plants.

### Broadcast Application Rates for Soil Incorporation Only

Soil Texture	Soil Texture to be Treated	TRIFLURALIN 4EC (pint/acre)
coarse	sand, sandy loam	1 (0.5 lb active)
medium	loam, silt loam, silt	1.5 (0.75 lb active)
fine	clay loam, silty clay, clay	2 (1 lb active)

TRIFLURALIN 4EC is not recommended for use on muck soils.

### ORNAMENTAL GROUNDCOVER PLANTINGS

#### Application Rate

Apply 1 gallon of TRIFLURALIN 4EC per acre or 3 fl oz per 1000 sq ft of groundcover area.

#### Field Grown Roses

Apply TRIFLURALIN 4EC as an incorporated treatment at a rate of 2 quarts per acre to field grown roses to control annual weeds listed on the product label. Apply to the soil surface in 5 to 40 gallons of finished spray and incorporate within 24 hours. Use a directed spray if application is made when roses are actively growing. Set incorporation equipment to avoid damage to root systems of established roses. Do not apply more than 2 quarts of TRIFLURALIN 4EC (2 lb active ingredient) per acre per year.

### UNDER PAVED SURFACES

#### Application Directions

Use TRIFLURALIN 4EC only where the soil to be treated has been prepared according to good construction practices. If rhizomes, stolons, tubers or other vegetative plant parts are present in the site, they should be removed by scalping with a grader blade to a depth sufficient to ensure their complete removal.

Apply TRIFLURALIN 4EC after the final road bed is established or after the base rock has been added. Do not move soil after applying TRIFLURALIN 4EC; do not apply TRIFLURALIN 4EC to soil where asphalt is to be applied directly on top of the treated soil. Paving should occur as soon as possible after application of TRIFLURALIN 4EC.

**Large Areas:** Apply TRIFLURALIN 4EC uniformly with a ground sprayer in sufficient water to ensure thorough wetting of the soil surface or penetration of the spray solution through the base rock layer. A minimum of 150 gallons per acre is recommended. Add TRIFLURALIN 4EC to clean water during filling of spray tank. Agitate before spraying.

**Small Areas:** For treating small areas, a hand sprayer or sprinkling can may be used. Before application determine the amount of water and TRIFLURALIN 4EC necessary to uniformly cover the area to be treated.

Shake or stir the spray solution prior to application.

Area Size	Amount of TRIFLURALIN 4EC
small	9 – 12 fl oz/1000 sq ft
large	3 – 4 gal/acre

### VEGETABLE GARDENS

#### Application Directions

Beginning with a clean spray tank, fill the sprayer one-half full with clean water. Add correct quantity of TRIFLURALIN 4EC, close the sprayer and shake well to mix. Finish filling sprayer and shake occasionally to keep TRIFLURALIN 4EC mixed in the tank. Apply TRIFLURALIN 4EC in 1 to 5 gallons of water per 1000 square feet on a broadcast basis. Spray uniformly over the top of the soil surface to ensure satisfactory weed control.

Crop residues or existing weeds can interfere with the mixing of TRIFLURALIN 4EC into the soil. A manageable level of such residues allows TRIFLURALIN 4EC to be uniformly mixed into the top 2 to 3 inches of soil. If the level of the crop residue is such that this cannot be done, till the soil prior to application.

**Soil Texture Guide:**

The amount of TRIFLURALIN 4EC applied varies with the soil texture to be treated. A fine textured soil requires more TRIFLURALIN 4EC than a coarse soil. Choose the proper rate for each application based upon the following soil texture group and specific crop recommendations. Do not exceed listed rates.

Soil Texture	Soil Classification
coarse (light)	sands, loamy sands, sandy loams
medium	silt, loam
fine (heavy)	clay loams, silty clay loams, clays, silty clays

**Rate Conversion Chart:**

TRIFLURALIN 4EC	
Rate per 1000 sq ft (teaspoon)	Rate per acre (pint)
2 ¼	1
3 1/3	1 ½
4 ½	2

**Small Sprayer Calibration Technique:** Small sprayer calibration can be achieved by following these five steps:

1. Fill the sprayer full of clean water.
2. Spray over the area to be treated.
3. When the sprayer is empty, measure the area treated to determine the number of square feet per sprayer load.
4. After calculating the number of square feet per sprayer load, calculate the amount of TRIFLURALIN 4EC needed to treat that size area.
5. Refer to the mixing directions on the product label for TRIFLURALIN 4EC.

**Incorporation Directions**

Thoroughly mix TRIFLURALIN 4EC into the top 2 to 3 inches of the final seedbed (when the garden is ready for planting) or erratic weed control and/or crop injury may result. Equipment such as a rototiller or rake should be used to mix TRIFLURALIN 4EC to the desired 2 to 3 inch depth. The machinery used for incorporation should break up large clods and mix TRIFLURALIN 4EC thoroughly with the soil. The more thoroughly TRIFLURALIN 4EC is mixed within the soil, the more consistent the weed control.

**Preplant Incorporation:** TRIFLURALIN 4EC must be mixed into the top 2 to 3 inches of the final seedbed within 24 hours after application.

**Postplant Incorporation:** Check specific crop incorporation directions after planting.

**Cultivation After Planting**

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

**48 HOUR INCORPORATION DELAY (For use only in Texas, Oklahoma and New Mexico)**

TRIFLURALIN 4EC herbicide may be applied as a preplant incorporated treatment for weed control in registered crops. The incorporation delay for TRIFLURALIN 4EC is extended from 24 to 48 hours when applied in the states of Texas, Oklahoma and New Mexico. If TRIFLURALIN 4EC is applied to a warm wet soil surface or the wind velocity is 10 mph or greater, variable weed control may result if the first incorporation is delayed more than 24 hours.

Follow soil incorporation procedures recommended on the label for TRIFLURALIN 4EC. Where two incorporation passes are required, the first pass must be accomplished within 48 hours after application. The second incorporation pass may occur anytime before planting.

**72 HOUR INCORPORATION DELAY (For use only in Arizona and California)**

When TRIFLURALIN 4EC herbicide is applied as a preplant incorporated treatment, the first incorporation pass must be accomplished within 24 hours after application. In Arizona and California the incorporation delay has been extended from 24 to 72 hours when applied to dry soils. However, when TRIFLURALIN 4EC is applied to warm soil or if wind velocity is 10 mph or higher, variable weed control may result from delaying the first incorporation beyond 24 hours.

Where two incorporation passes are required, the second incorporation may occur any time prior to planting. Follow other incorporation directions on the label for TRIFLURALIN 4EC.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in original container only. Avoid freezing. Store above 40°F. If frozen, poor weed control may result. Do not store near heat or flame. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### **Nonrefillable containers 5 gallons or less:**

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

### **Refillable containers 5 gallons or larger:**

**Container Handling:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

### **Nonrefillable containers 5 gallons or larger:**

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL CHEMTREC (800) 424-9300.

For other product information, contact Albaugh, LLC or see Safety Data Sheet.

### NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS

Important: Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund.

Our directions for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application, and other factors, all of which are beyond the control of Albaugh, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer and User.

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