



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

April 7, 2022

Christina M. Swick  
Agent for Finchimica S.P.A.  
Finchimica S.P.A.  
Via Lazio, 13  
25025 Manerbio (BS), Italy

Subject: Registration Review Label Mitigation for Trifluralin  
Product Name: FINCHIMICA TRIFLURALIN 4EC  
EPA Registration Number: 53591-1  
Application Date: 3/30/2020  
Decision Number: 561192

Dear Christina Swick:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Trifluralin Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Page 2 of 2  
EPA Reg. No. 53591-1  
Decision No. 561192

If you have any questions about this letter, please contact Quinn Gavin by phone at 202-566-2284, or via email at [gavin.quinn@epa.gov](mailto:gavin.quinn@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington", with a long horizontal flourish extending to the right.

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure

(Base label):

TRIFLURALIN	GROUP	3	HERBICIDE
-------------	-------	---	-----------

# Finchimica Trifluralin 4EC

## HERBICIDE

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, Field Corn, Cotton, Cottonwood Trees Grown for Pulp, Crambe, Cucurbits, Cuphea, Dry Peas, Durum, Echium, English Peas, Euphorbia, Evening primrose, Flax, Flaxseed, Gold of Pleasure, Grain Sorghum, Grapes, Grapefruit, Guar, Hare's ear mustard, Hops, Jojoba, Kale, Kenaf, Lemon, Lesquerella, Lima Bean, Lunaria, Meadowfoam, Milkweed, Mungbean, Mustard Greens, Mustard Seed, Nectarine, Niger seed, Oil radish, Okra, Onions, Orange, Peach, Peanuts, Pecan, Pepper, Plum, Poppy seed, Potatoes, Prune, Radish, Rapeseed, Rose hip, Safflower, Sesame, Snap Bean, Southern Peas, Soybeans, Stokes aster, Sugar Beets, Sugarcane, Sunflowers, Sweet rocket, Tallowwood, Tangelo, Tangerine, Tea oil plant, Tomatoes, Turnip Greens, Vernonia, Walnut, and Wheat

Active Ingredient:

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

Contains petroleum distillates.

Contains 4 lb active ingredient per gallon.

**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.)

---

### Precautionary Statements

---

#### Hazards to Humans and Domestic Animals

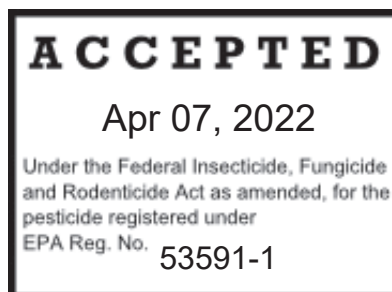
**Causes Moderate Eye Irritation • Harmful If Swallowed • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reaction In Some Individuals**

**Avoid contact with eyes, skin, or clothing.**

#### Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barrier Laminate, Butyl Rubber  $\geq$  14 mils, Nitrile Rubber  $\geq$  14 mils, or Viton  $\geq$  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:

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

### 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. Have a person sip a glass of water if able to swallow. 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 by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment.

**Note:** Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

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

### 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.

**NON-TARGET ORGANISM ADVISORY STATEMENT:** This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

**(Storage and Disposal for rigid containers 5 gal or less)**

**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.

**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.

**(Storage and Disposal for refillable rigid containers larger than 5 gal)****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.

**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.

**(Storage and Disposal for nonrefillable rigid containers larger than 5 gal)****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.

**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.

**Refer to label booklet for Directions for Use.**

**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.**

In case of emergency endangering health or the environment involving this product, call the National Pesticides Information Center at 1-800-858-7378.

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

**Avoid Freezing -- Store Above 40°F**

EPA Reg. No. 53591-1

EPA Est. \_\_\_\_\_

**Produced for  
Finchimica S.P.A.  
Via Lazio, 13  
25025 Manerbio (BS), ITA  
ITALY**

**NET CONTENTS \_\_**

(cover / shipping container):

TRIFLURALIN	GROUP	3	HERBICIDE
-------------	-------	---	-----------

# Finchimica Trifluralin 4EC

## HERBICIDE

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, Field Corn, Cotton, Cottonwood Trees Grown for Pulp, Crambe, Cucurbits, Cuphea, Dry Peas, Durum, Echium, English Peas, Euphorbia, Evening primrose, Flax, Flaxseed, Gold of Pleasure, Grain Sorghum, Grapes, Grapefruit, Guar, Hare's ear mustard, Hops, Jojoba, Kale, Kenaf, Lemon, Lesquerella, Lima Bean, Lunaria, Meadowfoam, Milkweed, Mungbean, Mustard Greens, Mustard Seed, Nectarine, Niger seed, Oil radish, Okra, Onions, Orange, Peach, Peanuts, Pecan, Pepper, Plum, Poppy seed, Potatoes, Prune, Radish, Rapeseed, Rose hip, Safflower, Sesame, Snap Bean, Southern Peas, Soybeans, Stokes aster, Sugar Beets, Sugarcane, Sunflowers, Sweet rocket, Tallowwood, Tangelo, Tangerine, Tea oil plant, Tomatoes, Turnip Greens, Vernonia, Walnut, and Wheat

### Active Ingredient:

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

Contains petroleum distillates.

Contains 4 lb active ingredient per gallon.

### 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.)

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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

**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.**

In case of emergency endangering health or the environment involving this product, call the National Pesticides Information Center at 1-800-858-7378.

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

21 March 2022

Page 6 of 54

**Avoid Freezing -- Store Above 40°F**

EPA Reg. No. 53591-1

EPA Est. \_\_\_\_\_

**Produced for**

**Finchimica S.P.A.  
Via Lazio, 13  
25025 Manerbio (BS), ITA  
ITALY**

**NET CONTENTS \_\_**



(Page 1 through end):

---

## Precautionary Statements

---

### Hazards to Humans and Domestic Animals

# CAUTION

**Causes Moderate Eye Irritation • Harmful If Swallowed • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reaction In Some Individuals**

**Avoid contact with eyes, skin, or clothing.**

### Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barrier Laminate, Butyl Rubber ≥ 14 mils, Nitrile Rubber ≥ 14 mils, or 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:

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

### 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. Have a person sip a glass of water if able to swallow. 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 by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment.

**Note:** Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

**Note to physician:** This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. Aspiration of this product may produce a severe pneumonitis. Stomach lavage with a cuffed

endotracheal tube in place and immediate administration of activated charcoal, 6 to 8 heaping teaspoonfuls with water, should be considered. Treatment is otherwise symptomatic and supportive.

### 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.

**NON-TARGET ORGANISM ADVISORY STATEMENT:** This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

### 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 such as Barrier Laminate, Butyl Rubber  $\geq$  14 mils, Nitrile Rubber  $\geq$  14 mils, or Viton  $\geq$  14 mils
- Shoes plus socks
- Protective eyewear

### Storage and Disposal

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

## Product Information

Finchimica Trifluralin 4EC 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, field corn, cotton, cottonwood trees grown for pulp, crambe, cucurbits, cuphea, dry peas, durum, echium, english peas, euphorbia, evening primrose, flax, flaxseed, gold of pleasure, grain sorghum, grapes, grapefruit, guar, hare's ear mustard, hops, jojoba, kale, kenaf, lemon, lesquerella, lima bean, lunaria, meadowfoam, milkweed, mungbean, mustard greens, mustard seed, nectarine, niger seed, oil radish, okra, onions, orange, peach, peanuts, pecan, pepper, plum, poppy seed, potatoes, prune, radish, rapeseed, rose hip, safflower, sesame, snap bean, southern peas, soybeans, stokes aster, sugar beets, sugarcane, sunflowers, sweet rocket, tallowwood, tangelo, tangerine, tea oil plant, tomatoes, turnip greens, veronica, walnut, and wheat

Finchimica Trifluralin 4EC may be applied in liquid sprays of water or liquid fertilizer, or impregnated on dry bulk fertilizer. Finchimica Trifluralin 4EC must be soil-incorporated within 24 hours of application. Finchimica Trifluralin 4EC may be tank mixed or followed by overlay or postemergence treatments with other herbicides to improve the spectrum of weeds controlled. Finchimica Trifluralin 4EC controls weeds by disrupting growth processes during germination. Finchimica Trifluralin 4EC does not control established weeds.

## Use Precautions

Applied according to directions and under normal growing conditions, Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC. Under these conditions, delayed crop development or reduced yields may result.

Do not apply Finchimica Trifluralin 4EC to soils that are wet or are subject to prolonged periods of flooding as poor weed control may result.

In Montana, uses of Finchimica Trifluralin 4EC are limited to those described in supplemental labeling. Refer to supplemental labeling for crops and specific use directions.

**Chemigation:** Finchimica 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.

**Restriction:** Do not use Finchimica Trifluralin 4EC on any crop grown in Pecos county or Reeves county, Texas.

## 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 Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC. Before planting sugar beets, moldboard plow to a depth of 12 inches to reduce the possibility of crop injury.

### **Proso Millet, Field 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, field 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 Finchimica 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 Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC.

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

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

### **Resistance Management**

For resistance management, Finchimica Trifluralin 4EC is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 3 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed. To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of Finchimica Trifluralin 4EC or other Group 3 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage ( or other mechanical control methods), cultural ( e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance management and/or integrated weed-management recommendations for specific crops and weed biotypes.

### **Integrated Weed Pest Management**

Integrate this product into an overall weed pest management strategy whenever the use of an herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

#### **SPRAY DRIFT**

##### Aerial Applications:

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- The boom length must not exceed 75% of the wingspan for airplanes or 90% of the rotor blade

diameter for helicopters.

- Do not apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

## **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.  
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

#### Controlling Droplet Size – Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### Controlling Droplet Size – Aircraft

- Adjust Nozzles - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

#### BOOM HEIGHT – Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

#### RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift.

#### SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

#### TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

#### TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Do not make applications during temperature inversions.

#### WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

## Soil Texture Guide for Application Rates

Rates listed for incorporated treatments of Finchimica 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 (Light) Soils	Sand, loamy sand, sandy loam
Medium Soils	Loam, silty clay loam <sup>1</sup> , silt loam, silt, sandy clay loam <sup>1</sup>
Fine (Heavy) Soils	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

### Finchimica Trifluralin 4EC - Alone

Finchimica Trifluralin 4EC may be mixed with water or most liquid fertilizer materials. Prior to mixing Finchimica 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 Finchimica 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 Finchimica 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.

### Finchimica Trifluralin 4EC in Tank Mix

For broader spectrum weed control, Finchimica 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 Treflan (trifluralin) is prohibited by the manufacturer's label. When tank mixing, use the listed rate of Finchimica 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.

Finchimica Trifluralin 4EC may be tank mixed with other products and applied with water or most liquid fertilizer materials. Prior to mixing Finchimica 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 Finchimica 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.

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

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

### Ground Broadcast Application

Apply Finchimica 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 Finchimica 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 flaggers to assure proper swath width interval.

### Application with Dry Bulk Fertilizer

Dry bulk fertilizers impregnated or coated with Finchimica Trifluralin 4EC may be applied as a preplant incorporated treatment on crops. All label instructions for Finchimica Trifluralin 4EC regarding application



rates, incorporation directions, special instructions, and precautions must be followed. Read and follow all label instructions below concerning use of Finchimica Trifluralin 4EC with dry bulk fertilizer. Properly applied dry bulk fertilizers impregnated with Finchimica Trifluralin 4EC provides weed and grass control equal to water sprays.

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

$$\begin{array}{rcccl} \text{Pints Finchimica Trifluralin} & & & & \text{Quarts Finchimica Trifluralin 4EC} \\ & \text{4EC} & & & \\ \text{Per Acre} & \times & \frac{1000}{\text{Pounds Fertilizer}} & = & \text{Per Ton of} \\ & & \text{Per Acre} & & \text{Fertilizer} \end{array}$$

**Limitations:** Apply a minimum of 200 lb per acre of dry fertilizer impregnated with Finchimica Trifluralin 4EC at the specified broadcast rate per acre. Any commonly used dry fertilizer can be used for impregnation with Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC must be incorporated two times. The first incorporation must 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**

Finchimica 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 Finchimica Trifluralin 4EC by this method.

#### **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 Finchimica 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. Finchimica Trifluralin 4EC may cause staining of plastic hoses and tanks.
12. Apply Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC:** When used alone, the injection of undiluted Finchimica 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 Finchimica Trifluralin 4EC is added to the system for injection. When injecting undiluted Finchimica Trifluralin 4EC, maintain continuous agitation in the supply tank.

**Diluted Finchimica Trifluralin 4EC:** Finchimica 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 Finchimica Trifluralin 4EC required (do not add water to Finchimica Trifluralin 4EC). Start agitation. Add the required amount of Finchimica 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 Finchimica Trifluralin 4EC, maintain continuous agitation in supply tank.

## Application Timing

### Preplant Incorporated Application

Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC at the listed rate to the established crop at or before the last cultivation. Required preharvest intervals for treatments with Finchimica 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

Finchimica Trifluralin 4EC may be applied in the fall for weed control in the crop of the following growing season in all crops for which Finchimica 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 Finchimica Trifluralin 4EC any time between September 1 and December 31. In all other states, fall apply Finchimica Trifluralin 4EC between October 15 and December 31.

Do not make Fall applications of Finchimica 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 Finchimica 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.

Finchimica Trifluralin 4EC must be soil-incorporated within 24 hours of application either by mechanical incorporation or at least 0.5 acre inch of water (rainfall, irrigation). If a second incorporation is needed it should be delayed 3 to 5 days after the first incorporation and be completed prior to planting. Non-uniform application may result in erratic weed control or crop injury. With most equipment and methods of application, a second incorporation is required. 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 Finchimica Trifluralin 4EC. Break up clods using tillage equipment prior to application of Finchimica 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 Finchimica Trifluralin 4EC to a depth of 2 to 3 inches in the final seedbed.

**Application Prior to Bedding:** Apply Finchimica 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 Finchimica Trifluralin 4EC. Apply and incorporate Finchimica 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 Finchimica 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 Finchimica 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 Finchimica 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 Finchimica 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 Finchimica 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).

## Single Pass Incorporation Option

Finchmica 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 flexline 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 Finchmica 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 Finchmica 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	Scientific Name
<b>Grass Weeds</b>	
annual bluegrass	<i>Poa annua</i>
barnyardgrass (watergrass)	<i>Echi nochloa crus-galli</i>
brachiaria (signalgrass)	<i>Brachiaria</i> spp.
bromegrass (cheatgrass) (downy brome)	<i>Bromus tectorum</i>
cheat (chess)	<i>Bromus secalinus</i>
crabgrass (large crabgrass) (smooth crabgrass)	<i>Digitaria</i> spp.
foxtail (bottlegrass) (bristlegrass) (giant foxtail) (green foxtail) (foxtail millet) (pigeongrass) (robust foxtail) (yellow foxtail)	<i>Setaria</i> spp.
guineagrass <sup>1</sup>	<i>Panicum maximum</i>
itchgrass (raoulgrass) <sup>1</sup>	<i>Rottboellia exaltata</i>
johnsongrass (from seed) <sup>2</sup>	<i>Sorghum halepense</i>
junglerice	<i>Echinochloa colonum</i>
panicum (fall panicum) <sup>3</sup>	<i>Panicum dichotomiflorum</i>
ryegrass, Italian (annual ryegrass)	<i>Lolium multiflorum</i>

Texas panicum (buffalograss) (Coloradograss)	<i>Panicum texanum</i>
red rice <sup>4</sup>	<i>Oryza sativa</i>
sandbur (burgrass)	<i>Cenchrus incertus</i>
sprangletop	<i>Leptochloa filiformis</i>
stinkgrass (lovegrass)	<i>Eragrostis cilianensis</i>
shattercane (wild cane) <sup>5</sup>	<i>Sorghum bicolor</i>
woolly cupgrass	<i>Eriochloa villosa</i>

### Broadleaf Weeds

carpetweed	<i>Mollugo verticillata</i>
chickweed	<i>Stellaria media</i>
field bindweed <sup>6</sup>	<i>Convolvulus arvensis</i>
goosefoot	<i>Chenopodium hybridum</i>
henbit	<i>Lamium amplexicaule</i>
knotweed	<i>Polygonum aviculare</i>
kochia (fireweed) (Mexican fireweed)	<i>Kochia scoparia</i>
lambsquarters, common	<i>Chenopodium album</i>
pigweed (carelessweed) (palmer amaranth) <sup>7</sup> (prostrate pigweed) (redroot) (rough pigweed) (spiny pigweed) <sup>5</sup>	<i>Amaranthus</i> spp.
puncturevine (western U.S. only) (caltrop) (goatweed)	<i>Tribulus terrestris</i>
purslane, common	<i>Portulaca oleracea</i>
pusley, Florida (Florida purslane) (Mexican clover) (pusley)	<i>Richardia scabra</i>
Russian thistle (tumbleweed)	<i>Salsola iberica</i>
stinging nettle (nettle)	<i>Urtica dioica</i>

<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 Finchimica S.P.A. representative for information regarding alternative weed control practices.

## Special Use Programs

Finchimica 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

- Chemigation
- 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**

- 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

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

- Rhizome Johnsongrass Control
- Field Bindweed Control

**Crops****Alfalfa - Established****Mechanically Incorporated**

Apply Finchimica 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	Finchimica Trifluralin 4EC (pints)
coarse	1.5
medium	2.0
fine	2.0

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

Finchimica 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	Finchimica 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 Finchimica 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 Finchimica 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, Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC immediately after a cutting between August 1 and October 1, but prior to weed germination. When fall applied, Finchimica Trifluralin 4EC controls bromegrass and cheat in addition to other labeled weeds that germinate after application.

The following weeds are controlled when Finchimica 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 Finchimica Trifluralin 4EC during any growing season. In the growing season following application of 4 pints of Finchimica Trifluralin 4EC to alfalfa, plant only those crops for which Finchimica 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 Finchimica Trifluralin 4EC.

#### Tank Mixing

Other products registered for use on established alfalfa may be applied in tank mix combination with Finchimica Trifluralin 4EC or applied as sequential treatments following application of Finchimica Trifluralin 4EC. Tank mixes containing Finchimica Trifluralin 4EC must be applied by ground broadcast when alfalfa is dormant or semi-dormant, or immediately after a cutting.

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.

#### Asparagus - Established

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

#### Broadcast Application Rates per Acre

	Finchimica Trifluralin 4EC (pints)	
	Split Application	Single Application
Soil Texture	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)

### Finchimica Trifluralin 4EC - Alone

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

#### Broadcast Application Rates per Acre

Soil Texture	Finchimica 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 Finchimica Trifluralin 4EC or as a sequential treatment following application of Finchimica Trifluralin 4EC. When tank mixing, use the listed rate of Finchimica 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 Finchimica Trifluralin 4EC as a preplant soil incorporated treatment.

#### Broadcast Application Rates per Acre

Soil Texture	Finchimica 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 Finchimica Trifluralin 4EC as a preplant soil incorporated treatment.

#### Broadcast Application Rates per Acre

Soil Texture	Finchimica 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 Finchimica Trifluralin 4EC as a preplant soil incorporated treatment.

**Broadcast Application Rates per Acre**

Soil Texture	Finchimica 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.

**Celery**

Apply Finchimica Trifluralin 4EC as a soil incorporated treatment. Finchimica 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	Finchimica 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*)**

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

**Broadcast Application Rates per Acre**

Soil Texture	Finchimica Trifluralin 4EC (pints)
coarse	1.0
medium	1.5

fine	2.0
------	-----

- Coarse and medium soils with 2to 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 Finchimica Trifluralin 4EC as a preplant soil incorporated treatment.

#### **Broadcast Application Rates per Acre**

<b>Soil Texture</b>	<b>Finchimica Trifluralin 4EC (pints)</b>
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 Finchimica Trifluralin 4EC prior to transplanting.

#### **Broadcast Application Rates per Acre**

<b>Soil Texture</b>	<b>Finchimica Trifluralin 4EC (pints)</b>
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.

## **Corn - Field Corn Only**

### **Postemergence Incorporated Treatment**

Apply Finchimica Trifluralin 4EC as a postemergence treatment following cultivation and/or use of a preemergence herbicide. Finchimica 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 Finchimica 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, Finchimica 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 Finchimica

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	Finchimica 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 field corn is planted in a furrow, Finchimica 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 Finchimica Trifluralin 4EC to field corn as a preplant or preemergence treatment or crop injury may occur.
- Do not apply Finchimica Trifluralin 4EC within 6 weeks prior to harvesting forage, fodder, or silage, or after field corn is 30 inches tall.

#### Chemigation

Finchimica 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 Finchimica Trifluralin 4EC through any type of irrigation system unless these directions are carefully followed.

#### Application Timing

Apply Finchimica 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 Finchimica Trifluralin 4EC prior to weed emergence or after existing weeds have been controlled with herbicides or cultivation. Finchimica Trifluralin 4EC does not control established weeds.

#### Broadcast Application Rates per Acre

Soil Texture	Finchimica Trifluralin 4EC (pints)
coarse	1.5 - 2.0
medium	1.5 - 2.0
fine	Do not apply by chemigation to fine textured soils.

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

**Restriction:** Do not apply Finchimica Trifluralin 4EC within 6 weeks prior to harvesting forage, fodder, or silage, or after field corn is 30 inches tall.

## Cotton and Cottonseed

### Application Timing

Finchimica 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

Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC or as a sequential treatment following application of Finchimica Trifluralin 4EC. When tank mixing, use the listed rate of Finchimica 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	Finchimica 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.

<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 Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC as a broadcast treatment or as a band to bare ground or standing dead cover following burndown with a postemergence herbicide. Finchimica 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 Finchimica 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 Finchimica 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.

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

Soil Texture	Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC in overhead sprinkler irrigation equal to 1/2 to 1 inch of water in either conventional or minimum tillage cotton. Finchimica Trifluralin 4EC must be applied within two days after planting and prior to crop emergence. Because Finchimica 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 Finchimica Trifluralin 4EC is applied through chemigation systems.

**Cultivation:** Soil treated by chemigation with Finchimica 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 Finchimica 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	Finchimica 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 Finchimica 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 Finchimica 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 Finchimica 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	Finchimica 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 Finchimica 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	Finchimica 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 Finchimica 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	Finchimica 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 Finchimica 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 Finchimica 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	Finchimica Trifluralin 4EC (pints)
coarse	2.0
medium	3.0
fine	4.0

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

**Fall Application:** Apply Finchimica 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.

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

**Maximum Crop Year Use Rates:** For full season weed control, Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC in one



crop year (fall or spring plus layby) exceeds the rates in the table below, plant only those crops for which Finchimica Trifluralin 4EC is labeled as a preplant incorporated treatment in the season following the application of Finchimica Trifluralin 4EC, or crop injury may result.

<b>Soil Texture</b>	<b>Cumulative Amount of Finchimica Trifluralin 4EC per Acre in One Crop Year (pints)</b>
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 Finchimica 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 Finchimica Trifluralin 4EC in new and established plantings of cottonwood trees grown for pulp.

#### **Application Before Planting**

Apply and incorporate Finchimica Trifluralin 4EC before planting.

#### **Broadcast Application Rates per Acre**

<b>Soil Texture</b>	<b>Finchimica Trifluralin 4EC (pints)</b>
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 Finchimica 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**

<b>Soil Texture</b>	<b>Finchimica Trifluralin 4EC (pints)</b>
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	Finchimica 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 Finchimica 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	Finchimica 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 harvest watermelon within 60 days after application. All other crops have a 30 day preharvest interval.

## Flax and Flax Seed (Fall Application Only)

Apply and incorporate Finchimica 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	Finchimica Trifluralin 4EC (pints)
coarse	1.0
medium	1.5
fine	2.0

## Grain Sorghum (Milo)

### Postemergence Incorporated Treatment

Apply Finchimica 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 Finchimica 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 Finchimica 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	Finchimica Trifluralin 4EC (pints)
coarse	0.75 - 1.0
medium	1.0 - 1.5
fine	1.5 - 2.0

- Apply Finchimica 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 Finchimica 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

Finchimica 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 Finchimica Trifluralin 4EC through any irrigation system unless these directions are carefully followed.

**Soil Preparation:** Cultivate before application of Finchimica 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 Finchimica 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. Finchimica Trifluralin 4EC must be applied prior to weed emergence or after existing weeds are controlled. Finchimica Trifluralin 4EC does not control established weeds.

### Broadcast Application Rates per Acre

Soil Texture	Finchimica 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 Finchimica Trifluralin 4EC to greens as a preplant soil incorporated treatment.

#### **Broadcast Application Rates per Acre**

Soil Texture	Finchimica 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 Finchimica 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	Finchimica 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 Finchimica Trifluralin 4EC as a preplant soil incorporated treatment.

#### **Broadcast Application Rates per Acre**

Soil Texture	Finchimica 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.

**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 Finchimica Trifluralin 4EC.

#### Broadcast Application Rates per Acre

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

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

#### Oilseed – Calendula, Castor oil plant, Chinese tallowtree, Euphorbia, Evening primrose, Jojoba, Niger seed, Rose hip, Stokes aster, Sunflower, Tallowwood, Tea oil plant, and Vernonia

##### Finchimica Trifluralin 4EC - Alone

Apply and incorporate Finchimica 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	Finchimica 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 Finchimica Trifluralin 4EC or as a sequential treatment following application of Finchimica Trifluralin 4EC. When tank mixing, use the listed rate of Finchimica 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.

#### Oilseed - Safflower

Apply and incorporate Finchimica 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	Finchimica 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.

## Okra

Apply Finchimica 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	Finchimica 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 Finchimica Trifluralin 4EC. Finchimica Trifluralin 4EC will not control established weeds.

### Broadcast Application Rates per Acre

Soil Texture	Finchimica 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:** Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC. Under these conditions reduced yields may result.

## Peas - English Peas

### Finchimica Trifluralin 4EC - Alone

Apply and incorporate Finchimica 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	Finchimica 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>Finchimica 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 Finchimica Trifluralin 4EC or as a sequential treatment following application of Finchimica Trifluralin 4EC. When tank mixing, use the listed rate of Finchimica 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 Finchimica Trifluralin 4EC as a preplant soil incorporated treatment.

### Broadcast Application Rates per Acre

Soil Texture	Finchimica 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

### Finchimica Trifluralin 4EC – Alone (For Use in Texas, Oklahoma, and New Mexico Only)

Apply and incorporate Finchimica 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	Finchimica 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 Finchimica Trifluralin 4EC or as a sequential treatment following application of Finchimica Trifluralin 4EC. When tank mixing, use the listed rate of Finchimica 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.

### Pepper (Transplant Only)

Apply and incorporate Finchimica Trifluralin 4EC prior to transplanting.

#### Broadcast Application Rates per Acre

Soil Texture	Finchimica 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 Finchimica Trifluralin 4EC after planting but before emergence, immediately following dragoff, or after potato plants have fully emerged.

#### Broadcast Application Rates per Acre

Soil Texture	Finchimica 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 Finchimica 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 Finchimica 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

	Finchimica Trifluralin 4EC (pints)
before planting	0.75
after planting	0.75

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

Finchimica 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 Finchimica Trifluralin 4EC specified for Applications After Planting, above. Incorporate immediately.

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 Finchimica Trifluralin 4EC plus Eptam tank mix.

### Finchimica Trifluralin 4EC Plus Eptam Tank-Mix - Preplant Treatment (for Use in Idaho, Oregon and Washington)

Finchimica 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

	Finchimica Trifluralin 4EC (pints)
all soil textures	0.75

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 Finchimica Trifluralin 4EC plus Eptam tank mix.

### Chemigation (Finchimica Trifluralin 4EC Only)

Finchimica 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 Finchimica Trifluralin 4EC. Do not apply Finchimica Trifluralin 4EC through any type of irrigation system unless these directions are carefully followed.

Apply Finchimica 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 Finchimica

Trifluralin 4EC. Finchimica Trifluralin 4EC does not control established weeds. Incorporation is not necessary when Finchimica Trifluralin 4EC is applied by chemigation.

#### Broadcast Application Rates per Acre

Soil Texture	Finchimica 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 Finchimica Trifluralin 4EC, avoid completely covering potato plants with treated soil. Erratic weed control may result if cultivation exposes untreated soil between rows.

### Radish

Apply Finchimica Trifluralin 4EC as a preplant soil incorporated treatment.

#### Broadcast Application Rates per Acre

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

### Small Grains - Barley, Durum, and Wheat

#### Special Precautions for Use of Finchimica Trifluralin 4EC on Small Grains

Carefully follow directions for use of Finchimica Trifluralin 4EC on small grains to minimize potential crop stress. Under certain conditions, delayed crop emergence and or stand reduction may occur when Finchimica 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 Finchimica 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 Finchimica 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 a 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 Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC on small grains where a dinitroaniline herbicide such as Treflan 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 Finchimica Trifluralin 4EC as a preplant incorporated treatment prior to planting spring seeded barley. Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC in Small Grains before application of Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC.

**Broadcast Application Rates per Acre**

Soil Texture	Finchimica 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 Finchimica 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.

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

Apply Finchimica 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 Finchimica Trifluralin 4EC. Finchimica Trifluralin 4EC may be applied for up to three weeks before planting.

**Broadcast Application Rates per Acre**

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

**Incorporation Directions:** Incorporate Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC.

**Precautions:**

- Carefully read and follow Special Precautions for Use of Finchimica Trifluralin 4EC in Small Grains before application of Finchimica 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 Finchimica Trifluralin 4EC after planting, but before emergence, to control the following weeds susceptible to Finchimica 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	Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC in Small Grains before application of Finchimica 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)**

Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC.

**Broadcast Application Rates per Acre**

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

**Incorporation Directions:** Incorporate Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC.

**Precautions:**

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

**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 Finchimica 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 Finchimica Trifluralin 4EC in treated soil. Finchimica 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	Finchimica Trifluralin 4EC (pints)
coarse and medium	(pints) 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 Finchimica Trifluralin 4EC in Small Grains before application of Finchimica 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 Finchimica Trifluralin 4EC after planting, but before emergence, to control foxtail (pigeongrass) in spring wheat, durum, and barley.

#### **Broadcast Application Rates per Acre**

Soil Texture	Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC in Small Grains before application of Finchimica Trifluralin 4EC.
- Wheat seed in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

## **Soybeans**

### **Finchimica Trifluralin 4EC - Alone**

Apply and incorporate Finchimica 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	Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC or as a sequential treatment following application of Finchimica Trifluralin 4EC. When tank mixing, use the listed rate of Finchimica 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. Soybeans - Chemigation

Finchimica 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 Finchimica Trifluralin 4EC through any irrigation system unless these directions are carefully followed.

Apply Finchimica Trifluralin 4EC in sprinkler irrigation equal to 1/2 to 1 inch of water. Plant and apply Finchimica Trifluralin 4EC as soon as possible after the last tillage operation. Finchimica Trifluralin 4EC must be applied within two days after planting and prior to crop emergence. Finchimica Trifluralin 4EC does not control established weeds. Soil incorporation is not required when Finchimica Trifluralin 4EC is applied through chemigation systems.

#### Broadcast Application Rates per Acre

Soil Texture	Finchimica 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 Finchimica Trifluralin 4EC may be shallow cultivated without reducing weed control activity.

#### 2. Soybeans - Weed Control Under Reduced or Conservation Tillage

Finchimica 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 Finchimica Trifluralin 4EC must occur within 24 hours. For the first incorporation, a tandem disc or combination tool that can thoroughly mix Finchimica 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 anytime 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 Finchimica 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 Finchimica Trifluralin 4EC provide weed and grass control equal to or better than Finchimica Trifluralin 4EC applied in liquid sprays. Two incorporation passes are required when Finchimica 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	Finchimica 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, Finchimica 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.

### 3. Soybeans - Fall Panicum Control

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

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

Apply Finchimica 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 Finchimica Trifluralin 4EC at the following broadcast rates:

Soil Texture	Finchimica 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.

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

Apply Finchimica 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 Finchimica Trifluralin 4EC at the following broadcast rates:

Soil Texture	Finchimica Trifluralin 4EC (pints)
--------------	------------------------------------



coarse	1.5
medium	2.0
fine	3.0

**6. Soybeans - Itchgrass (Raoulgrass) Suppression**

Apply Finchimica 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	Finchimica Trifluralin 4EC (pints)	
	Preplant Incorporated	Layby Application
medium	3.0	1.0
fine	3.0	2.0

**7. 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 Finchimica Trifluralin 4EC and reduce weed control activity. Under these conditions, higher rates of Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC is used. Follow listed application and incorporation procedures for Finchimica Trifluralin 4EC.

**Broadcast Application Rates per Acre**

Soil Texture	Finchimica Trifluralin 4EC (pints)
coarse	1.5 - 2.5
medium	2.5
fine	3.0

**8. 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 Finchimica Trifluralin 4EC in the spring before planting. Follow the soil preparation and incorporation procedures for Finchimica Trifluralin 4EC.

**Broadcast Application Rates per Acre**

Soil Texture	Finchimica 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
sSoils 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 Finchimica Trifluralin 4EC at the following broadcast rates:

Soil Texture	Finchimica 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.

**Restriction:** 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 Finchimica Trifluralin 4EC at the normal rate indicated for soil texture and charcoal level, plant only those crops for which Finchimica 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.

### 9. Soybeans - Rhizome Johnsongrass Control in Eastern United States and the State of Texas

Rhizome johnsongrass control with Finchimica 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 Finchimica 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	Finchimica 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 Finchimica Trifluralin 4EC any time before planting in the spring for two consecutive years.

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

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

Soil Texture	Finchimica 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 Finchimica Trifluralin 4EC can be applied as a preplant treatment or crop injury may result.

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

Follow the soil preparation and application procedures for Finchimica 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 Finchimica Trifluralin 4EC.

##### Broadcast Application Rates per Acre

Soil Texture	Finchimica 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 Finchimica 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.

#### Sugar Beets

##### Finchimica Trifluralin 4EC - Alone

Apply Finchimica 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	Finchimica 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 Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC or as a sequential treatment following application of Finchimica Trifluralin 4EC. When tank mixing, use the listed rate of Finchimica 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 Finchimica Trifluralin 4EC twice a year. Make the first application of Finchimica Trifluralin 4EC in the fall on firmly packed beds immediately after the seed pieces are planted. Make the second application of Finchimica 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	Finchimica 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 Finchimica 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 Finchimica 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 Finchimica 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 Finchimica Trifluralin 4EC.

### Broadcast Application Rates per Acre

Soil Texture	Finchimica 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 Finchimica 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 Finchimica 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 Finchimica 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	Finchimica 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 Finchimica Trifluralin 4EC on plant or ratoon cane. Follow use directions in preceding section for layby application.

**Broadcast Application Rates per Acre**

Soil Texture	Finchimica Trifluralin 4EC (pints)
all textures	2.0 - 4.0

**Tomato**

Apply Finchimica 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	Finchimica 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 Finchimica Trifluralin 4EC before transplanting.

**Broadcast Application Rates per Acre**

Soil Texture	Finchimica 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.

**New Plantings of Grapes**

Apply and incorporate Finchimica Trifluralin 4EC before transplanting.

**Broadcast Application Rates per Acre**

Soil Texture	Finchimica 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**

Finchimica 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 Finchimica 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	Finchimica Trifluralin 4EC (pints)
all soil textures	2.0 - 4.0

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

**Special Use Programs**

**Rhizome Johnsongrass Control - Special Two-Year Use Program**

Finchimica 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	Finchimica Trifluralin 4EC (pints)
all soil textures	4.0

**Incorporation:** Incorporate Finchimica 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 Finchimica Trifluralin 4EC.

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

**Bindweed Control in California**

Finchimica 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 Finchimica 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 Finchimica 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	Finchimica Trifluralin 4EC (pints)
all soil 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 Finchimica 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.

---

**CONDITION OF SALE**


---

The label instructions and directions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, soil composition, type of vegetation, presence of other materials, or the manner of use or application if not in accordance with label directions, all of which are beyond the control of Finchimica S.P.A., to the extent consistent with applicable law.

---

**LIMITED WARRANTY AND DISCLAIMER**


---

To the extent consistent with applicable law, Finchimica S.P.A. warrants that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use. Finchimica S.P.A. makes NO OTHER warranty of any kind with respect to the product.

To the extent consistent with applicable law, the warranty does not extend to use of this product contrary to the label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to Finchimica S.P.A. and buyer assumes the risk of any such use.

---

**READ THE LABEL BEFORE USING**


---

To the extent consistent with applicable law, Finchimica S.P.A. expressly disclaims all implied warranties of merchantability or fitness for a particular purpose, and no such warranties shall be implied or inferred.

Neither Finchimica S.P.A. nor any seller of this product makes, and their employees and agents are not permitted to make, any representations or warranties, express or implied by law, not specifically set forth herein.

Buyer assumes the risk to persons or property arising from the use or handling of this product, and ACCEPTS THE PRODUCT ON THAT CONDITION.

---

## **USES WITH OTHER PRODUCTS (TANK MIXES)**

---

When tank mixing this product with other herbicides, all applicable directions, restrictions, and precautions for the additional herbicides must be followed. Use the most restrictive limitations stated on the product labels. Before initiating full tank mix application, evaluate the physical compatibility of the proposed mixture on a small scale of recommended spray mixture concentrations. Also, evaluate such mixtures for vegetation control before expanding commercial use.

---

## **LIMITATIONS OF LIABILITY AND DAMAGES**

---

To the extent consistent with applicable law, the liability of Finchimica S.P.A. and any other seller for any loss or injury, whether based on negligence, breach of warranty, strict liability in tort, or any other cause of action, shall be limited to the purchase price of the product. Prompt notice of any claim must be given by the buyer to Finchimica S.P.A. within ninety days after the application of the product or ninety days after the first planting, whichever is later. Notify Finchimica S.P.A. at this address: Finchimica S.P.A. Via Lazio, 13, 25025 Manerbio (BS), ITA, ITALY.

To the extent consistent with applicable law, Finchimica S.P.A. and any other seller of the product shall not be liable, and any and all claims against Finchimica S.P.A. and any other seller are waived, for special, indirect, incidental, or consequential damages or expenses of any nature, including, but not limited to, loss of profits or income, and crop or property loss or damage, whether or not based on negligence, breach of warranty, strict liability in tort or any other cause of action.

FINCHIMICA S.P.A. OFFERS THIS PRODUCT AND THE BUYER AND USER ACCEPT IT SUBJECT TO THE FOREGOING CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY, LIABILITY AND DAMAGES, WHICH MAY BE VARIED ONLY BY AGREEMENT IN WRITING SIGNED BY A DULY AUTHORIZED REPRESENTATIVE OF FINCHIMICA S.P.A.