

Reg. # 62719-118

PM-23

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Dennis H. lade, Ph.D.
DOWELANCO
QUAD IV 9002 PURDUE RD
INDIANAPOLIS IN 46268

OCT 15 1993

Subject: Label Amendment Submission of 06/28/93
to Comply with WPS Labeling Requirements
EPA Reg Nr. 62719-118
TREFLAN 5

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is accepted subject to the comments listed below.

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

A copy of your proposed labeling stamped, "Accepted with comments", is attached. Make any required changes described below and send three copies of final labeling as soon as it is available to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (H-7504C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460-0001

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DOWELANCO
EPA Reg. Number: 62719-118
TREFLAN 5
Application date: 06/28/93
Original Submission

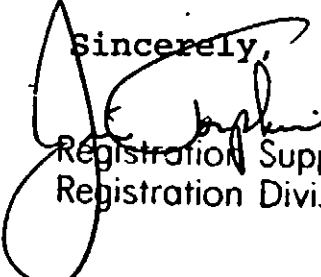
Hand or courier deliveries of final labels may be made to:

Document Processing Desk (FIN-LABEL)
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

The Agricultural Use Requirements referral statement in your proposed label does not reflect the language prescribed on page 43 of the Main Labeling Guidance.

Please correct the typographical errors circled on the draft before printing final labeling.

In your final labeling, the "Agricultural Use Requirements" text must be contained in a clearly separate box. This box may be set apart by a line, by another graphical device, by a different color background, or in any other way that clearly distinguishes it from surrounding text.

Sincerely,

Registration Support Branch
Registration Division

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[Base Label of Laminated Booklet -- Treflan 5]

ACCEPTED
with COMMENTS
In EPA Letter Dated

OCT 15 1993

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

62719-118

(logo) DowElanco

Treflan* 5

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

Active Ingredient:

trifluralin: α, α, α -trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine. 50.8%

Inert Ingredients . 49.2%

Total . 100.0%

Contains 5 pounds active ingredient per gallon.

Manufactured using the processes of U.S. Patents 4,120,905 and 4,226,789

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

CAUTION

Causes Eye Irritation • Harmful if Swallowed, Inhaled Or Absorbed Through The Skin • Treflan 5 May Cause Skin Sensitization Reactions in Certain Individuals

~~Avoid breathing vapors or spray mist and contact with skin, eyes or clothing. Use eye protection and protective clothing such as coveralls, a long sleeved shirt and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.~~

Personal Protective Equipment (PPE)

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barrier Laminate or Viton
- Shoes plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protections 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.

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User Safety Recommendations

Users should:

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

First Aid

If In eyes: Flush with plenty of water. Get medical attention if irritation persists.

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

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

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

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

Environmental Hazards

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

Refer to label booklet for additional precautionary information including Personal Protective Equipment (PPE), and Directions for Use including Agricultural Use Requirements and Storage and Disposal.

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

In case of an emergency endangering health or the environment involving this product, call collect 517-636-4400.

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

Avoid Freezing -- Store Above 40°F

EPA Reg. No. 62719-118
20081

EPA Est. 1471-IN-2
900-00xxxx

*Trademark of DowElanco
DowElanco • Indianapolis, IN 46268, U.S.A.

Herbicide

Net Contents 2.5 gal

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[Laminated Booklet -- Treflan 5]
[Front Cover of Booklet]

[Developed per WPS and addition of
Supplemental Label dated 6/29/92.]

[EDITOR NOTE: Strike-through text denotes deletions; Underlined text denotes additions.]

(logo) DowElanco

Treflan* 5

Concentrated Formula

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

Active Ingredient:

trifluralin: α,α,α -trifluoro-2,6-dinitro-*N,N*-dipropyl-*p*-toluidine. 50.8%

Inert Ingredients . 49.2%

Total . 100.0%

Contains 5 pounds active ingredient per gallon.

Manufactured using the processes of U.S. Patents 4,120,905 and 4,226,789

Keep Out of Reach of Children

CAUTION

Refer to inside of label booklet for additional precautionary information including Personal Protective Equipment (PPE), and Directions for Use including Agricultural Use Requirements and Storage and Disposal.

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

In case of an emergency endangering health or the environment involving this product, call collect 517-636-4400.

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

Avoid Freezing -- Store Above 40°F

EPA Reg. No. 62719-118
20081

EPA Est. 1471-IN-2
900-00xxxx

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DowElanco • Indianapolis, IN 46268, U.S.A.

Herbicide

Net Contents 2.5 gal

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[Page 2 of Booklet]

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Flax (Fall Application Only)
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 Grapefruit (See Tree and Vine Crops)
 Greens (Turnip greens, Collard, Kale and Mustard Greens)
 Hops
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 Nectarine (See Tree and Vine Crops)
 Okra
 Onions (Grown for Dry Bulbs Only)
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 Barley, Spring Seeded - Spring Application Preplant
 Incorporated for Foxtail (Pigeongrass) Control in Barley
 Used as a Cover Crop or in the Conservation Reserve Program
 Winter Wheat - Preplant Incorporated for Control of Cheatgrass
 and Other Annual Grasses and Broadleaves (For Use in
 Idaho, Oregon and Washington)
 Winter Wheat - Post Plant Incorporated (For Use in Idaho,
 Oregon and Washington)
 Winter Wheat - Fallow Soil Application Prior to Planting
 (For Use in Idaho, Oregon and Washington)
 Spring Wheat, Durum and Barley - Post Plant Incorporated
 for Foxtail (Pigeongrass) Control
 Soybeans
 Sugar Beets
 Sugarcane
 Sunflower
 Tangelo (See Tree and Vine Crops)
 Tangerine (See Tree and Vine Crops)
 Tomato
 Tree and Vine Crops - Citrus, Fruit and Nut Crops and Vineyards:
 New Plantings of Almond, Apricot, Grapefruit, Lemon,
 Nectarine, Orange, Peach, Pecan, Plum, Prune, Tangelo,
 Tangerine and Walnut
 New Plantings of Vineyards
 Established Plantings of Almond, Apricot, Grapefruit, Lemon,
 Nectarine, Orange, Peach, Pecan, Plum, Prune, Tangelo,
 Tangerine, Walnut and Vineyards
 Wheat (See Small Grains section)
 Walnut (See Tree and Vine Crops)

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Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION - PRECAUCION:

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

~~Causes Eye Irritation • Harmful If Swallowed, Inhaled Or Absorbed Through The Skin • Trellan 5 May Cause Skin Sensitization Reactions In Certain Individuals~~

~~Avoid breathing vapors or spray mist and contact with skin, eyes or clothing. Use eye protection and protective clothing such as coveralls, a long-sleeved shirt and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.~~

Personal Protective Equipment (PPE)

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

Applicators and other handlers must wear:

- ~~• Long-sleeved shirt and long pants~~
- ~~• Chemical-resistant gloves such as Barrier Laminate or Viton~~
- ~~• Shoes plus socks~~
- ~~• Protective eyewear~~

~~Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.~~

Engineering Controls Statements

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

User Safety Recommendations

Users should:

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

First Aid

~~If In eyes: Flush with plenty of water. Get medical attention if irritation persists.~~

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

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

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

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

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Environmental Hazards

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

Directions for Use

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

Read all Directions for Use before applying this product.

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 exemptions 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 or Viton
- Shoes plus socks
- Protective eyewear

Storage and Disposal

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

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

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

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

Bulk/Mini-bulk Tank Cleaning: Triple rinse (or equivalent) and wash with appropriate cleaners before reusing.

General Information

Treflan 5 herbicide is a selective herbicide for the preemergence control of annual grasses and broadleaf weeds. Treflan 5 may be applied in liquid sprays of water or liquid fertilizer, or impregnated on dry bulk fertilizer. To prevent loss of herbicidal activity, Treflan 5 must be soil incorporated within 24 hours after application. Treflan 5 may be tank mixed or followed by overlay or postemergence treatments with other

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herbicides to improve the spectrum of weeds controlled. Treflan 5 controls weeds by disrupting growth processes during germination. Treflan 5 does not control established weeds.

General Use Precautions

Applied according to directions and under normal growing conditions, Treflan 5 will not harm the treated crop. Overapplication may result in crop injury or rotational crop damage from soil residue. Uneven application or improper incorporation of Treflan 5 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 Treflan 5. Under these conditions, delayed crop development or reduced yields may result.

Do not apply Treflan 5 to soils that are wet or are subject to prolonged periods of flooding as poor weed control may result.

Do not use Treflan 5 on any crop grown in Pecos county or Reeves county, Texas.

In Montana, uses of Treflan 5 are limited to those described in supplemental labeling. Refer to supplemental labeling for crops and specific use directions.

Chemigation: Do not apply Treflan 5 through any type of irrigation system.

Rotation Crop Restrictions

Sugarbeets, Redbeets and Spinach

In Arizona, Colorado, California, Idaho, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming: Sugarbeets, redbeets or spinach should not be planted for 12 months after a spring application or 14 months after a fall application of Treflan 5. Plowing to a depth of 12 inches prior to planting these crops will reduce the possibility of crop injury. If land has not been irrigated, these crops should not be planted for 18 months after a spring application or 20 months after a fall application of Treflan 5.

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

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

In Arizona, Colorado, California, Idaho, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming: Proso millet, corn, sorghum (milo), oats and annual or perennial grass crops or grass mixtures should not be planted for 12 months after a spring application or 14 months after a fall application of Treflan 5 to avoid the possibility of crop injury. If land has not been irrigated, these crops should not be planted for 18 months after a spring application or 20 months after a fall application. Moldboard plowing to a depth of 12 inches before planting these crops will reduce the possibility of crop injury.

In Minnesota, North Dakota and South Dakota: Proso millet, sorghum (milo), oats and annual or perennial grass crops or grass mixtures should not be planted for 18 months after a spring application or 21 months after a fall application of Treflan 5.

In those portions of Kansas, Nebraska, Oklahoma and Texas that receive less than 20 inches of rainfall and irrigation to produce a crop: Do not plant proso millet, sorghum (milo), oats and annual or perennial grass crops or grass mixtures for 18 months after an application of Treflan 5. In sorghum, cool wet weather conditions during early growth stages may increase the possibility of crop injury. In areas receiving more than 20 inches of rainfall and irrigation, these crops should not be planted for 12 months after a spring application or 14 months after a fall application of Treflan 5.

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Other Crops

Vegetable crops other than those listed on this label for use with preplant soil incorporated application of Treflan 5 should not be planted within 5 months after an application of Treflan 5.

Soil Texture Guide for Application Rates

Rate recommendations for incorporated treatments of Treflan 5 are based on "Soil Texture Class" (coarse, medium or fine) and soil organic matter content. A fine textured soil (e.g., clay loam) will require higher application rate than a coarse textured soil (e.g., loamy sand). In the table below, find the "Soil Texture Class" (coarse, medium or fine) corresponding to the "Soil Texture to be Treated". Choose the proper rate for each application based on the "Soil Texture Class" and specific crop recommendations. Do not exceed recommended rates.

| Soil Texture Class | Soil Texture to be Treated |
|----------------------|---|
| Coarse (Light) Soils | Sand, loamy sand, sandy loam |
| Medium Soils | Loam, silty clay loam†, silt loam, silt, sandy clay loam† |
| Fine (Heavy) Soils | Clay, clay loam, silty clay loam†, silty clay, sandy clay, sandy clay loam† |

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

Mixing Directions**Treflan 5 - Alone**

Treflan 5 may be mixed with water or most liquid fertilizer materials. Prior to mixing Treflan 5 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 Treflan 5 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 Treflan 5 and continue agitation while filling tank to required spray volume.

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

Treflan 5 in Tank Mix

Treflan 5 may be tank mixed with other products and applied with water or most liquid fertilizer materials. Prior to mixing tank mixes containing Treflan 5 with liquid fertilizer, refer to label section entitled "Testing for Compatibility in Liquid Fertilizers" for testing procedures to determine tank mix compatibility with the liquid fertilizer product to be used.

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

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

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

Maintain agitation and fill spray tank to 3/4 of total spray volume. Add Treflan 5 and other emulsifiable concentrates (EC) and any solutions (S).

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

Precautions:

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

Premixing: Dry and flowable formulations may be premixed with water (slurried) and added to the spray tank through a 20-35 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).

Testing for Compatibility in Liquid Fertilizers

Treflan 5 alone or in tank mix combination with dry flowables (DF), wettable powders (WP), aqueous suspensions (AS), flowables (F), liquids (L), or solutions (S) may not combine properly with some liquid fertilizer materials. Small quantities should always be tested before full scale mixing. Follow the testing procedure below to determine if a compatibility agent is needed and which one works best in your herbicide/fertilizer mixture. The seven compatibility agents listed at the end of this section have been thoroughly tested. Other surfactants commercially available may or may not be suitable for use with liquid fertilizers.

Testing Procedure

1. Add 1 pint of the liquid fertilizer to a quart jar.
2. Add 1 to 4 teaspoon(s) of the DF, WP, AS, F, or L formulation (depending on mixing ratio required) to the liquid fertilizer. Close the jar and agitate until the materials are evenly dispersed in the liquid fertilizer. If the materials do not disperse well, it may be necessary to slurry the chemicals in water before adding to the fertilizer.
3. After dispersing the materials (step 2) add 3 to 4 teaspoons of Treflan 5 to the jar and shake well. Add solution herbicides to the mixture last and agitate. Observe the jar for about 10 minutes. If materials rise to the surface and form a thick layer (oily curds) that will not redisperse when agitated, a compatibility agent is needed. If the mixture is easily redispersed with slight agitation, a compatibility agent is not required. Good agitation, however, must be provided to maintain dispersion in the spray tank.
4. If the need for a compatibility agent is demonstrated (step 3) the following procedure is recommended: Using a clean quart jar repeat step one above and add 1/2 teaspoon of the compatibility agent to the liquid fertilizer. Mix well and then repeat steps 2 and 3.

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

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

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Compatibility Agents

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

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

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

Precautions:

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

Application Methods**General**

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

Ground Broadcast Application

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

Aerial Broadcast Application

Apply Treflan 5 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 Treflan 5 may be applied as a preplant incorporated treatment on approved crops. All label recommendations for Treflan 5 regarding application rates, incorporation directions, special instructions and precautions should be followed. Read and follow all label instructions below concerning use of Treflan 5 with dry bulk fertilizer. Properly applied dry bulk fertilizers impregnated with Treflan 5 provides weed and grass control equal to water sprays.

Use the following formula to calculate the amount of Treflan 5 required to impregnate a ton of dry bulk fertilizer.

$$\begin{array}{rcccl} \text{Pints Treflan 5} & & 1000 & & \text{Quarts Treflan 5} \\ \text{Per Acre} & \times & \frac{\quad}{\text{Pounds Fertilizer}} & = & \text{Per Ton of} \\ & & \text{Per Acre} & & \text{Fertilizer} \end{array}$$

Limitations: Apply a minimum of 200 lb/acre of dry fertilizer impregnated with Treflan 5 at the recommended broadcast rate per acre. Any commonly used dry fertilizer can be used for impregnation of Treflan 5 except coated ammonium nitrate and pure limestone. These materials will not absorb the herbicide. Blends containing mixtures of these materials can be impregnated.

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Impregnation: Use any closed drum, belt, ribbon or other commonly used dry bulk fertilizer blender. Nozzles used to apply Treflan 5 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. Treflan 5 should be incorporated 2 times when impregnated on dry bulk fertilizer. The first incorporation should occur within 24 hours after application. The second incorporation should be delayed 3 to 5 days after the first and be completed prior to planting.

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

Application Timing

Spring Application

Apply and incorporate Treflan 5 any time after January 1 when soil can be worked and is in a condition which allows thorough mixing to insure uniform incorporation. See "Approved Crops" section for application timing recommendations for specific crops.

Fall Application

Fall application can be used for all crops for which Treflan 5 is recommended as a preplant incorporated treatment. Refer to "Approved Crops" section for any crop specific fall application instructions.

In the states of California, North Dakota, South Dakota and Minnesota, apply and incorporate Treflan 5 any time between September 1 and December 31. In all other states, fall apply Treflan 5 between October 15 and December 31.

Ground may be bedded up over winter. On bedded ground, reduce beds to desired height before planting, by moving some treated soil from beds into furrows. Where soil is left flat over winter, care should be taken not to turn up untreated soil during spring bedding operations. Destroy established weeds during seedbed preparation. Weeds established in furrows as a result of exposing untreated soil should be destroyed before planting. Fall application of Treflan 5 is not recommended on fields which remain wet or are subject to periods of flooding.

Preemergence Application Immediately After Planting

Apply and incorporate Treflan 5 immediately after planting and prior to crop germination. Adjust incorporation equipment so as to not disturb planted seed. Refer to the "Approved Crops" section of this label for crop specific instructions.

Postemergence and Layby Application

Apply and incorporate Treflan 5 at the recommended rate to the established crop at or before the last cultivation. Required preharvest intervals for treatments with Treflan 5 for certain crops are specified in the "Approved Crops" section of this label. Crop cover may prevent uniform soil coverage from over-the-top sprays. To avoid this problem, use drop nozzles or directed sprays to achieve uniform soil coverage.

Incorporation Directions

Soil Preparation and Incorporation

Ground cover, such as crop residues or existing weeds, can interfere with uniform soil incorporation of Treflan 5. A manageable level of ground cover will allow uniform incorporation into the top 2 to 3 inches of soil. Ground cover and crop residues, if excessive, should be reduced by appropriate soil tillage prior to application.

Break up clods using tillage equipment prior to application of Treflan 5. Treflan 5 must be incorporated within 24 hours after application. With most equipment and methods of application, a second incorporation is required and may occur any time before planting. The second incorporation should be in

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a different direction, and to avoid bringing untreated soil to the surface, should not be deeper than the first.

General Soil Conditions: The soil surface should be smooth enough to allow for uniform application and efficient incorporation of Treflan 5. 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, Treflan 5 should be incorporated to a depth of 2 to 3 inches in the final seedbed.

Application Prior to Bedding: Apply Treflan 5 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 Treflan 5. Apply and incorporate Treflan 5 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 Treflan 5. Limit depth of cultivation to the zone of treated soil (2 to 3 inches) to avoid moving untreated soil to the surface. Exposure of untreated soil may cause loss of weed control.

Incorporation Equipment

Use incorporation equipment capable of mixing Treflan 5 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 Treflan 5 approximately half as deep as the equipment is set to operate. For example, a disc set to cut four inches deep will mix most of the Treflan 5 within the top 2 inches of soil. Any recommended incorporation implement may be used alone or in combination with any other recommended implement. Two incorporation passes are required unless otherwise specified.

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

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

Combination Seedbed Conditioners: These implements are defined as three or more tillage devices combined to operate as a single tillage unit. For example, 2 to 3 rows of field cultivator C- or S-shaped shanks with an effective sweep spacing of 6 to 9 inches, (staggered so that no soil is left unturned), followed by a spike-tooth or flexline harrow, followed by a ground driven reel or basket. Combination implements should be set to cut 3 to 4 inches deep and operated at a minimum of 6 mph. Treflan 5 can be incorporated with one pass when using a combination seedbed conditioner. Two incorporations are required under conditions which prevent optimum soil mixing such as excessive trash, roughness, high clay content or soil moisture.

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

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

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

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P.T.O.-Driven Equipment (tillers, cultivators, hoes): Adjust equipment to incorporate Treflan 5 into the top 2 to 3 inches of the final seedbed with rotors spaced to provide a clean sweep of the soil. Only one incorporation is necessary. P.T.O. equipment should not be operated more than 4 mph.

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

Weeds Controlled by Treflan 5

Grass Weeds

| <u>Common name</u> | <u>Scientific Name</u> |
|--|--------------------------------|
| annual bluegrass | <i>Poa annua</i> |
| barnyardgrass (watergrass) | <i>Echinochloa 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) (bristleglass) (giant foxtail) (green foxtail) (foxtail millet) (pigeongrass) (robust foxtail) (yellow foxtail) | <i>Setaria</i> spp. |
| guineagrass (See special instructions for control in sugarcane in the "Approved Crops" section.) | <i>Panicum maximum</i> |
| itchgrass (raoulgrass) (See special instructions for control in sugarcane in the "Approved Crops" section.) | <i>Rottboellia exaltata</i> |
| johnsongrass (from seed) (rhizome - see special instructions for control in cotton, soybeans, fruit and nut crops and vineyards in the "Approved Crops" section.) | <i>Sorghum halepense</i> |
| jungerice | <i>Echinochloa colonum</i> |
| oats, wild† | <i>Avena fatua</i> |
| panicum fall panicum (spreading panicgrass - see special instructions for control in cotton and soybeans in the "Approved Crops" section.) | <i>Panicum dichotomiflorum</i> |
| ryegrass, Italian (annual ryegrass) | <i>Lolium multiflorum</i> |
| Texas panicum (buffalograss) (Coloradograss) | <i>Panicum texanum</i> |
| red rice (See special instructions for suppression or partial control in soybeans in the "Approved Crops" section.) | <i>Oryza sativa</i> |

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| | |
|---|-------------------------------|
| sandbur (burgrass) | <i>Cenchrus incertus</i> |
| sprangletop | <i>Leptochloa filiformis</i> |
| stinkgrass (lovegrass) | <i>Eragrostis cilianensis</i> |
| shattercane (wild cane) | <i>Sorghum bicolor</i> |
| (See special instructions for control in soybeans in the "Approved Crops" section.) | |
| wooly cupgrass | <i>Eriochloa villosa</i> |

†When applied as a preplant incorporated treatment, Treflan 5 controls wild oats that germinate in the treated zone. Wild oat control is not claimed for incorporated uses in small grains.

Broadleaf Weeds

| <u>Common Name</u> | <u>Scientific Name</u> |
|--|-----------------------------|
| carpetweed | <i>Mollugo verticillata</i> |
| chickweed | <i>Stellaria media</i> |
| field bindweed | <i>Convolvulus arvensis</i> |
| (See special instructions for control in fruit and nut crops and vineyards in the "Approved Crops" section.) | |
| 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) (prostrate pigweed) (redroot) (rough pigweed) (spiny pigweed) | <i>Amaranthus</i> spp. |
| (See special instructions for control in soybeans in "Approved Crops" section.) | |
| 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> |

Special Use Programs

Treflan 5 is approved for the following special use programs. Refer to "Approved Crops" section of this label for details on soil preparation, use rates, application, soil incorporation, and precautions for each type or program.

Cotton

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

Soybean

- Fall Panicum Control
- Pigweed and Seedling Johnsongrass Control
- Additional Weed and Grass Control (Gulf Coast Counties of Texas)
- Rhizome Johnsongrass Control
- Charcoal Soils in Arkansas, Louisiana and Mississippi
- Red Rice Control in Arkansas, Louisiana, Mississippi and Texas
- Wild Cane (shattercane) Control
- Treflan 5 plus Sencor or Lexone for Rhizome Johnsongrass Control

Fruit and Nut Crops and Vineyards

- Rhizome Johnsongrass Control
- Field Bindweed Control

Approved Crops

ALFALFA - ESTABLISHED

Mechanically Incorporated

Apply Treflan 5 with ground or aerial equipment and mechanically incorporate prior to weed emergence to control weeds listed in the "General Information" section of this label. Use mechanical incorporation equipment that will insure thorough soil mixing with minimal damage to crop stand.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 1.2 |
| Medium | 1.6 |
| Fine | 1.6 |

Surface Applications (Water Incorporated)

Treflan 5 may be surface applied for annual grass control in established alfalfa by ground or aerial broadcast application equipment.

Surface Applications Activated by Rainfall or Irrigation

Broadcast surface applications of Treflan 5 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 Treflan 5. If activated by furrow irrigation, care should be taken to thoroughly wet beds between furrows. If rainfall or irrigation has not occurred within 3 days after application, Treflan 5 may be mechanically incorporated. If mechanically incorporated, use equipment that will insure thorough soil mixing with minimum damage to the established alfalfa.

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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 Treflan 5 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 Treflan 5 immediately after a cutting between August 1 and October 1, but prior to weed germination. When fall applied, Treflan 5 controls bromegrass and cheat in addition to other labeled weeds that germinate after application.

The following weeds are controlled when Treflan 5 is surface applied and incorporated by rainfall or irrigation:

- | | |
|---------------|------------|
| barnyardgrass | crabgrass |
| bromegrass | cupgrass |
| (cheatgrass) | foxtail |
| (downy brome) | junglerice |
| (cheat) | sandbur |
| (chess) | wildbarley |
| canarygrass | |

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|-------------------|----------------------|
| All Soil Textures | 3.2 |

Precautions:

- Do not cut or graze alfalfa within 21 days after application of Treflan 5.
- Apply no more than 3.2 pt c¹ Treflan 5 during any growing season. In the growing season following application of 3.2 pt of Treflan 5 to alfalfa, plant only those crops for which Treflan 5 is registered as a preplant treatment or crop injury may occur.

Tank Mix Combinations

Other products registered for use on established alfalfa may be ground broadcast in tank mix combination with Treflan 5 or applied as sequential treatments following application of Treflan 5. Tank mixes containing Treflan 5 must be applied when alfalfa is dormant or semi-dormant, or immediately after a cutting.

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

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ASPARAGUS - ESTABLISHED

Apply Treflan 5 to established asparagus as a single or split application. Treflan 5 will suppress volunteer seedling asparagus and field bindweed when applied as directed. Follow recommended soil preparation, application and incorporation procedures for Treflan 5.

Application Timing

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

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 | |
|--------------|--------------------------|-------------------------|
| | Split Application | Single Application |
| | Before and After Harvest | Before or After Harvest |
| | (pints) | (pints) |
| Coarse | 0.8 + 0.8 | 1.6 |
| Medium | 1.2 + 1.2 | 2.4 |
| Fine | 1.6 + 1.6 | 3.2 |

- Do not apply more than 1.6 pt/acre on coarse soils, 2.4 pt/acre on medium soils or 3.2 pt/acre on fine soils during any calendar year.

BEANS - DRY BEANS

Treflan 5 - Alone

Apply and incorporate Treflan 5 in the spring before planting or in the fall. See instructions for fall application of Treflan 5 under the heading "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 |
|--------------|-----------|
| | (pints) |
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Treflan 5 plus Eptam Tank Mix

Treflan 5 may be tank mixed with Eptam 7E and applied as a preplant incorporated treatment to control additional weeds. Use application rates recommended for dry beans "Treflan 5 - Alone", above. Refer to the label for Eptam for application rates, additional use directions, precautions and limitations before use.

BEANS - GUAR AND MUNGBEAN

Apply Treflan 5 as a preplant soil incorporated treatment.

Broadcast Application Rates/acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.2 |
| Fine | 1.2 |

BEANS - LIMA BEAN AND SNAP BEAN

Apply Treflan 5 as a preplant soil incorporated treatment.

Broadcast Application Rates/acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 0.8 |
| Fine | 1.2 |

CARROT

Apply Treflan 5 as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

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CASTOR BEAN

Apply Treflan 5 as soil incorporated treatment, before or immediately after planting. If applied and incorporated after planting, set equipment so as to not disturb the seed.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

CELERY

Apply Treflan 5 as a soil incorporated treatment. Treflan 5 may be applied to direct seeded or transplant celery before planting, at planting or immediately after planting.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

CHICORY / ENDIVE

Treflan 5 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 Treflan 5 as a soil incorporated treatment in spring or early summer prior to planting. Apply and incorporate Treflan 5 according to directions on the label for Treflan 5.

Broadcast Application Rates per Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.2 |
| Fine | 1.6 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 pints

COLÉ CROPS - BROCCOLI, BRUSSELS SPROUTS, CABBAGE AND CAULIFLOWER**Direct Seeded Cole Crops**

Apply Treflan 5 as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 0.8 |
| Fine | 1.2 |

- Soils with 2-5% organic matter - 1.2 pints

Precaution: Direct seeded cole crops exhibit marginal tolerance to higher than recommended rates of Treflan 5. Stunting or reduced stands may occur.

Transplanted Cole Crops

Apply and incorporate Treflan 5 prior to transplanting.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 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 Treflan 5 as a postemergence treatment following cultivation or use of a preemergence herbicide. Treflan 5 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 Treflan 5 must be mechanically incorporated within 24 hours. Mechanical incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. The sweep-type cultivator should have 3 to 5 sweeps per row middle and be operated at a speed that will provide vigorous soil mixing. Set middle sweeps so as to avoid exposing untreated soil. Adjust incorporation equipment so as to avoid mechanical injury to the crop.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.6-0.8† |
| Medium | 0.8-1.2 |
| Fine | 1.2-1.6 |

†Apply 0.8 to 1.2 p/acre on coarse soils in Alabama, Florida, Georgia, North Carolina, South Carolina and Virginia to control fall panicum and Texas panicum.

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

Precautions:

- Do not apply to sweet corn or corn grown for seed.
- Do not apply Treflan 5 to corn as a preplant or preemergence treatment or crop injury may occur.
- Where corn is planted in a furrow, Treflan 5 should be applied only after a cultivation to move soil into the row.

Treflan 5 plus Atrazine Tank Mix

Treflan 5 may be applied in tank mix combination with atrazine plus an emulsifiable oil or oil concentrate when corn is at the 2-leaf stage of growth or taller and weeds are no more than 1 1/2 inches in height. A period of 24 to 48 hours is required to obtain atrazine postemergence activity after which the preemergence activity of the Treflan 5 plus atrazine combination may be activated by 0.5 inch or more of rainfall or overhead sprinkler irrigation or mechanical incorporation. Use the application rates and incorporation methods for Treflan 5 recommended under "Postemergence Incorporated Treatment" in the "Corn - Field Corn Only" section of this label.

Precautions:

- Where corn is planted in a furrow, Treflan 5 should be applied only after a cultivation to move soil into the row.
- Refer to the product label for atrazine for application rates, additional use directions, precautions and limitations before use.

COTTON

Treflan 5 - Alone

Apply Treflan 5 to cotton as a soil incorporated treatment. Treflan 5 may be applied before planting, immediately after planting, to the established crop up to layby, or in the fall. Refer to instructions for fall application under "Application Timing" in the "General Information" section of this label. Follow recommended soil preparation, application and incorporation procedures in the "General Information" section of this label. When incorporating Treflan 5 after planting, but prior to crop emergence, set

equipment so as to not disturb planted seed. Postemergence application of Treflan 5 may be made from the 4 true leaf stage of growth up to layby, but not less than 90 days before harvest. Apply postemergence treatments as a directed spray beneath cotton plants to soil between the rows. Use the same application rates for preplant, preemergence and layby treatments.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 | | |
|--------------|---------------------|------------------|-----------------|
| | Spring Application† | Fall Application | |
| | | Eastern U.S.†† | Western U.S.††† |
| Coarse | (pints) 0.8 | (pints) 1.6 | (pints) 1.2 |
| Medium | 1.0-1.2 | 1.6 | 1.6 |
| Fine | 1.2-1.6 | 1.6 | 2.0 |

†Spring Application:

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 to 2.0 pints
- Use lower rate in rate range for areas receiving less than 20 inches of total annual rainfall and irrigation.

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

†††Fall application rates for western cotton producing areas, including: Arizona, California and Nevada. For cotton grown in states other than those listed above, fall apply at broadcast rates recommended for areas receiving greater than 20 inches average annual rainfall.

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

Layby Treatment

Apply and incorporate Treflan 5 in established cotton from the 4 true leaf stage of growth up to layby, but not less than 90 days before harvest. Apply uniformly to the soil surface, using drop nozzles if necessary. Use the application rates recommended above for preplant incorporated treatments. Soil incorporate using one pass of a sweep-type cultivator or properly adjusted rolling cultivator. Operate cultivation equipment at speeds sufficient to provide vigorous soil mixing and exercise care to avoid mechanical injury to the crop.

Special Use Programs

Fall Panicum Control

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

Pigweed and Seedling Johnsongrass Control

Apply Treflan 5 as a preplant incorporated treatment.

Broadcast Application Rates/Acre: In Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, southeastern Missouri (Bootheel), North Carolina, South Carolina, Tennessee and southern Virginia, apply Treflan 5 at the following broadcast rates:

| Soil Texture | Treflan 5 |
|--------------|--------------------|
| Coarse | (pints) 0.8-1.2 |
| Medium | 1.2-1.6 |
| Fine | 1.6 |

(Exception: Louisiana, where 2.4 pt/acre can be applied to fine soils).

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

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

Apply Treflan 5 as a preplant incorporated treatment up to 2 weeks before planting.

Broadcast Application Rates/Acre: For cotton grown in Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller and Wharton counties of the Texas Gulf Coast, apply Treflan 5 at the following broadcast rates:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 1.2 |
| Medium | 1.6 |
| Fine | 2.4 |

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

Rhizome johnsongrass control with Treflan 5 requires double application rates for 2 consecutive years. Commercially acceptable control cannot be obtained with only one year of double rate use of Treflan 5. Carefully follow all special use directions.

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

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 1.6 |
| Medium | 2.4 |
| Fine | 3.2 |

Spring Application: Apply Treflan 5 any time before planting in the spring for 2 years in succession.

Fall Application: Apply Treflan 5 between October 15 and December 31 for 2 years in succession.

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

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

Precautions:

In the season following a double rate treatment, plant only rice or those crops for which Treflan 5 can be applied as a preplant treatment or crop injury may occur.

Tank Mixes, Overlay and Postemergence Treatments**Treflan 5 in Tank Mix**

Treflan 5 may be tank mixed with Caparol, Cotoran, Zorial and other products registered for use on cotton as a preplant incorporated treatment to control additional weeds. Use the application rates for Treflan 5 recommended for cotton "Treflan 5 - Alone".

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

Treflan 5 - Preplant Incorporated Followed by Overlay Treatments

Apply Treflan 5 as a preplant incorporated treatment. Additional weeds tolerant to Treflan 5 may be controlled using overlay preemergence applications of Cotoran, Karmex, Zorial or other products registered for use on cotton, unless use following Treflan 5 is specifically prohibited by the manufacturer. Consult the manufacturer's labels for additional weeds controlled, use directions, precautions and limitations before use.

Treflan 5 - Preplant Incorporated Followed by Postemergence Treatments

Apply Treflan 5 as a preplant incorporated treatment. Additional weeds tolerant to Treflan 5 may be controlled using postemergence treatments of products registered for use on cotton, unless use following Treflan 5 is specifically prohibited by the manufacturer. Consult the manufacturer's labels for additional weeds controlled, use directions, precautions and limitations before use.

CUCURBITS - CANTALOUPE, CUCUMBER AND WATERMELON

Apply Treflan 5 after emergence when plants have reached the 3 to 4 true leaf stage of growth. Apply as a directed spray to soil between the rows. Avoid foliage contact as slight crop injury may occur. Set incorporation equipment to move treated soil around the base of plants.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|---------------------|------------------------------|
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

FLAX (Fall Application Only)

Apply and incorporate Treflan 5 in the fall for weed control in spring seeded flax. Incorporate once within 24 hours after application. The second incorporation may be performed in the spring prior to planting.

Special Instructions for Flax

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

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|---------------------|------------------------------|
| Coarse | 0.8 |
| Medium | 1.2 |
| Fine | 1.6 |

FORAGE LEGUMES

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

Apply Treflan 5 as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 0.8-1.2 |
| Fine | 1.2 |

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

Precautions:

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

GRAIN SORGHUM (MILO)

Postemergence Incorporated Treatment

Apply Treflan 5 as a directed or over-the-top spray when grain sorghum is 8 inches tall or taller. Drop nozzles should be used if foliage prevents uniform soil coverage.

Soil Preparation: Cultivate before application of Treflan 5 to remove established weeds and to cover the base of grain sorghum plants with soil. Cultivation equipment should be set to add approximately 1 inch of soil to the base of sorghum plants.

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

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.6-0.8 |
| Medium | 0.8-1.2 |
| Fine | 1.2-1.6 |

- Apply Treflan 5 at lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

Precautions:

- Do not apply Treflan 5 to grain sorghum as a preplant or preemergence treatment or crop injury will occur.
- Over-application may result in injury to grain sorghum.

Treflan 5 plus Atrazine Tank Mix

Treflan 5 may be applied in tank mix combination with atrazine plus an emulsifiable oil or oil concentrate when grain sorghum is 8 inches tall or taller and weeds are no more than 1 1/2 inches in height. A period

of 24 to 48 hours is required to obtain postemergence activity of atrazine after which the preemergence activity of the Treflan 5 plus atrazine combination may be activated by 0.5 inch or more of sprinkler irrigation or mechanical incorporation. Use application rates and incorporation methods for Treflan 5 recommended under "Postemergence Incorporated Treatment" in the "Grain Sorghum (Milo)" section of this label.

Precautions:

- Where grain sorghum is planted in a furrow, Treflan 5 should be applied only after a cultivation to move soil into the row.
- Refer to the product label for atrazine for application rates, additional use directions, precautions and limitations before use.

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

Apply Treflan 5 to greens as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.2 |
| Fine | 1.2 |

- Soils with 2-10% organic matter - 1.2 pints

HOPS

Apply and incorporate Treflan 5 to established crop during dormancy. Use incorporation equipment that will insure thorough soil mixing with minimal damage to crop stand.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.0 - 1.2 |
| Fine | 1.2 |

- Soils with 2-10% organic matter - 1.2 pints

MUSTARD - GROWN FOR SEED OR PROCESSED FOR FOOD

Apply Treflan 5 to mustard as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.2 |
| Fine | 1.2 |

- Soils with 2-10% organic matter - 1.2 pints

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OKRA

Apply Treflan 5 as a soil incorporated treatment, before or immediately after planting. If applied and incorporated after planting, set equipment so as to not disturb the seed.

Broadcast Application Rate /Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

ONIONS - GROWN FOR DRY BULBS ONLY

Apply Treflan 5 to established onions as a soil incorporated treatment. Apply as a directed spray to soil between onion rows. Spray shields should be used to avoid injury to foliage or exposed bulbs. Do not apply within 60 days of harvest.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.6-0.8 |
| Medium | 0.8-1.0 |

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

Incorporation

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

Precautions: When applied according to directions under normal growing conditions, Treflan 5 will not adversely affect onions. Diseases, improper incorporation depth, excessive moisture, high salt concentration or drought may weaken the crop and increase the possibility of damage from Treflan 5. Under these conditions, delayed crop development or reduced yields may result.

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PEAS - DRY PEA AND ENGLISH PEAS**Treflan 5 - Alone**

Apply and incorporate Treflan 5 in the spring before planting or in the fall. Refer to instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 | |
|--------------|-------------------------------|------------------------------|
| | Spring Application (pints) | Fall Application† (pints) |
| Coarse | 0.8 | 0.8 |
| Medium | 0.8 | 1.0-1.2 |
| Fine | 1.2 | 1.2 |

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

†Treflan 5 may be fall applied to Dry and English Peas in the states of Idaho, Oregon and Washington.

Treflan 5 plus Far-Go Tank Mix (For Use in Idaho Oregon and Washington)

Treflan 5 may be tank mixed with Far-Go and applied as a preplant soil incorporated treatment to control wild oats in dry and English peas. Use application rates recommended for dry and English peas "Treflan 5 - Alone", above. Refer to the label for Far-Go for application rates, additional use directions, precautions and limitations before use.

PEAS - SOUTHERN PEAS

Apply as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

• Coarse and medium soils with 2-5% organic matter - 1.2 pints

• Fine soils with 2-5% organic matter - 1.6 pints

• All soils with 5-10% organic matter - 1.6 pints

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

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PEANUTS**Treflan 5 - Alone**

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

Apply and incorporate Treflan 5 before planting, at planting or immediately after planting. When incorporating after planting, adjust equipment so as to not disturb planted seed.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.2 |

Treflan 5 plus Vernam Tank Mix

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

Treflan 5 may be tank mixed with Vernam and applied as a preplant incorporated treatment to control additional weeds. Use application rates recommended for peanuts "Treflan 5 - Alone" above. Refer to the label for Vernam for application rates, additional use directions, cautions and limitations before use.

PEPPER (Transplant Only)

Apply and incorporate Treflan 5 prior to transplanting.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

POTATOES (Not for Use in the State of Maine)**Treflan 5 - Alone**

Apply and incorporate Treflan 5 after planting prior to crop emergence, immediately following dragoff, or after potato plants have fully emerged.

Incorporation: Set incorporation equipment so that the bed and furrow are uniformly covered with a layer of treated soil. If the layer of treated soil is not uniform and the herbicide is concentrated over the bed, potato emergence may be retarded and stem brittleness can occur. When applying and incorporating Treflan 5 after potato plants have fully emerged, do not completely cover the plants with treated soil. Likewise, do not completely cover plants during subsequent cultivations. Be careful that incorporation equipment does not damage potato seed pieces or elongating sprouts.

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Broadcast Application Rates/Acre

| Soil Texture | Treflan 5 |
|--------------|-----------|
| | (pints) |
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Treflan 5 in Tank Mix**Treflan 5 plus Eptam Tank Mix - Post Plant Preemergence Treatment**

Treflan 5 may be tank mixed with Eptam and applied as a soil incorporated treatment to control additional weeds. Apply after planting, but before crop emergence. In areas where potatoes are normally dragged off, apply and incorporate up to or immediately following drag off. Use application rate recommended for potatoes "Treflan 5 - Alone". Refer to the label for Eptam for application rates, additional use directions, precautions and limitations before use.

RADISH

Apply Treflan 5 as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 |
|--------------|-----------|
| | (pints) |
| Coarse | 0.8 |
| Medium | 1.2 |
| Fine | 1.2 |

RAPSEED (CANOLA)

Apply and incorporate Treflan 5 in the spring before planting or in fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 |
|--------------|-----------|
| | (pints) |
| Coarse | 0.8 |
| Medium | 1.2 |
| Fine | 1.6 |

Precaution: Do not apply Treflan 5 to rapeseed (canola) grown in the state of Alaska.

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SAFFLOWER

Apply and incorporate Treflan 5 in the spring before planting or in fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 | |
|--------------|-------------------------------|------------------------------|
| | Spring Application (pints) | Fall Application† (pints) |
| Coarse | 0.8 | 1.2 |
| Medium | 1.0-1.2 | 1.6 |
| Fine | 1.2-1.6 | 2.0 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 2.0 pints

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

†Treflan 5 may be fall applied to safflower in the states of Arizona, California, Idaho, Nevada, Oregon, Utah, Washington and Wyoming

SMALL GRAINS - BARLEY, DURUM AND WHEAT:

Special Precautions for Use of Treflan 5 on Small Grains

Carefully follow directions for use of Treflan 5 on small grains to minimize potential crop stress. Under certain conditions, delayed crop emergence and or stand reduction may occur when Treflan 5 is applied to barley, durum or wheat. The combined effect of certain cultural practices and unfavorable soil or environmental conditions may cause excessive crop seedling stress resulting in retarded crop growth, stand reduction and possibly reduced yield. For best results, observe the following cultural practices or precautions:

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

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

Do not exceed recommended application rates for Treflan 5. 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 Treflan 5 into the upper 1 to 1.5 inches of soil. If applied after planting, set equipment so as to not disturb planted seed.

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

Use only high quality seed where Treflan 5 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.

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Do not fall apply Treflan 5 in combination with any other preplant incorporated herbicide.

Soil characteristics and environmental conditions which may contribute to crop seedling stress that may be accentuated by use of Treflan 5 include:

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

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

Note: Do not apply Treflan 5 on small grains where a dinitroaniline herbicide such as Treflan 5 was applied at a rate recommended for row crops (oil seeds) during the previous growing season.

Application Directions for Small Grains

Barley, Spring Seeded -- Spring Application Preplant Incorporated for Foxtail (Pigeongrass) Control (For Use in Minnesota, North Dakota and South Dakota)
Apply Treflan 5 as a preplant incorporated treatment prior to planting spring seeded barley. Treflan 5 may be applied to ground that has a manageable trash level 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 Treflan 5 in the soil surface.

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

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

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

Precautions:

- Carefully read and follow "Special Precautions for Use of Treflan 5 in Small Grains" before application of Treflan 5.
- 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 Treflan 5 as a preplant incorporated treatment prior to planting spring seeded barley on land enrolled in acreage conservation reserve programs. Follow recommended soil preparation, application and incorporation procedures for Treflan 5.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.2 |
| Fine | 1.2 |

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

Precautions: Use of this weed control practice may result in slight stand reduction. Follow the most severe grazing restrictions imposed either by the label for Treflan 5 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 Treflan 5 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 Treflan 5. Treflan 5 may be applied for up to 3 weeks before planting.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 1.2 |
| Medium | 1.2 |
| Fine | 1.6 |

Incorporation Directions: Incorporate Treflan 5 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 Treflan 5 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 Treflan 5.

Precautions:

- Carefully read and follow "Special Precautions for Use of Treflan 5 in Small Grains" before application of Treflan 5.
- Wheat planted in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

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

Apply and incorporate Treflan 5 after planting, but before emergence, to control the following weeds susceptible to Treflan 5 in winter wheat: annual ryegrass, annual bluegrass, downy brome (cheatgrass), pacific meadow foxtail (blackgrass), fiddleneck (tarweed) and henbit.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8-1.2 |
| Medium | 1.2 |

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

Precautions:

- Carefully read and follow "Special Precautions for Use of Treflan 5 in Small Grains" before application of Treflan 5.
- 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)

Treflan 5 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 Treflan 5 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 Treflan 5.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 1.2 |
| Medium | 1.2 |
| Fine | 1.6 |

Incorporation Directions: Incorporate Treflan 5 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 Treflan 5 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 Treflan 5.

Precautions:

- Carefully read and follow "Special Precautions for Use of Treflan 5 in Small Grains" before application of Treflan 5.
- Wheat planted in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

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

Apply and incorporate Treflan 5 after planting, but before emergence, to control foxtail (pigeongrass) in spring wheat, durum and barley. Treflan 5 may be tank mixed with Far-Go to control wild oats. Refer to the label for Far-Go for application rates, additional use directions, precautions and limitations before use.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 0.8 |
| Fine | 1.2 |

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

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

Precautions:

- Carefully read and follow "Special Precautions for Use of Treflan 5 in Small Grains" before application of Treflan 5.
- Wheat seed in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

SOYBEANS**Treflan 5 - Alone**

Apply Treflan 5 as a preplant soil incorporated treatment. Treflan 5 may also be applied in the fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 | |
|--------------|--------------------|-------------------|
| | Spring Application | Fall Application† |
| Coarse | (pints) 0.8 | (pints) 1.6 |
| Medium | 1.2 | 1.6 |
| Fine | 1.6 | 2.0 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 to 2.0 pints

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

For soybeans grown in states other than those listed above, fall apply Treflan 5 at broadcast rates recommended for normal preplant incorporated treatment.

Precautions: Soybeans should be planted after early season adverse weather conditions have passed, especially when using higher rate programs. Cool, wet weather early in the growth-cycle causes additional stress on the soybean plant which may result in reduced stand, delayed maturity and reduced yield.

Special Use Programs**Fall Panicum Control**

Apply Treflan 5 as a preplant incorporated treatment at a broadcast rate of 2.0 pt/acre on coarse and medium soils.

Pigweed and Seedling Johnsongrass Control

Apply Treflan 5 as a preplant incorporated treatment.

Broadcast Application Rates/Acre: In Alabama, Arkansas, Florida, Georgia, Kansas, Louisiana, Mississippi, Missouri, Nebraska, North Carolina, Oklahoma, South Carolina, Tennessee, and southern Virginia, apply Treflan 5 at the following broadcast rates:

| Soil Texture | Treflan 5 |
|--------------|--------------------|
| Coarse | (pints) 0.8-1.2 |
| Medium | 1.2-1.6 |
| Fine | 1.6-2.0 |

(Exception: Louisiana 2.4 pt/acre on fine soils).

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

Apply Treflan 5 as a preplant incorporated treatment up to 2 weeks before planting.

Broadcast Application Rates/Acre: For soybeans grown in Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller and Wharton counties of the Texas Gulf Coast, apply Treflan 5 at the following broadcast rates:

| Soil Texture | Treflan 5 (pints) |
|---------------------|------------------------------|
| Coarse | 1.2 |
| Medium | 1.6 |
| Fine | 2.4 |

Charcoal Soils In Arkansas, Louisiana and Mississippi

Newly cleared land often contains high organic matter (5-10%) and charcoal from burning debris. Charcoal and organic matter tends to bind Treflan 5 and reduce weed control activity. Under these conditions, higher rates of Treflan 5 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 Treflan 5. In the burn row a high level of charcoal is usually present. Consequently, poor weed control may result, even if an increased rate of Treflan 5 is used. Follow recommended application and incorporation procedures for Treflan 5.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|---------------------|------------------------------|
| Coarse | 1.2-2.0 |
| Medium | 2.0 |
| Fine | 2.4 |

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

Suppression or partial control of red rice can be obtained from a 2-year treatment program which consists of a double rate application the first year followed by application in the second year at normal rates indicated for soil texture, organic matter or charcoal content. Apply and incorporate Treflan 5 in the spring before planting. Follow recommended soil preparation and incorporation procedures for Treflan 5.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 | |
|---------------------------------------|---|---|
| | Application Year 1 (pints) | Application Year 2 (pints) |
| Coarse | 1.6 | 0.8 |
| Medium | 2.4 | 1.2 |
| Fine | 3.2 | 1.6 |
| Coarse Soils with 2-5% organic matter | 2.4 | 1.2 |
| Soils with 5-10% organic matter | 3.2 | 1.6-2.0 |

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

| Soil Texture | Treflan 5 (pints) |
|---------------------|------------------------------|
| Coarse | 1.2-2.0 |
| Medium | 2.0 |
| Fine | 2.4 |

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

Precaution: Crop Rotation: The recommendation for red rice control in soybeans is a 2-year program. In the first year following a double rate application, plant only soybeans. During the second year, after applying Treflan 5 at the normal rate indicated for soil texture and charcoal level, plant only those crops for which Treflan 5 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.

Rhizome Johnsongrass Control In Eastern United States and the State of Texas
Rhizome johnsongrass control with Treflan 5 requires double rate application for two consecutive years. Commercially acceptable control cannot be obtained with only one year of double rate use of Treflan 5. Carefully follow the special use directions which follow.

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

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 1.6 |
| Medium | 2.4 |
| Fine | 3.2 |

- Coarse soils with 2-5% organic matter - 2.4 pints
- Soils with 5-10% organic matter - 3.2 pints

Spring Application: Apply Treflan 5 any time before planting in the spring for two consecutive years.

Fall Application: Apply Treflan 5 after October 15 for two consecutive years.

Split Application: Apply Treflan 5 at the broadcast rates indicated in the following table both spring and fall for 2 consecutive years.

| Soil Texture | Treflan 5 Spring + Fall (pints) |
|---------------------------------------|---------------------------------------|
| Coarse | 0.8 + 0.8 |
| Medium | 1.2 + 1.2 |
| Fine | 1.6 + 1.6 |
| Coarse Soils with 2-5% organic matter | 1.2 + 1.2 |
| Soils with 5-10% organic matter | 1.6 + 1.6 |

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

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

Precautions: In the season following a double rate treatment, plant only rice and those crops to which Treflan 5 can be applied as a preplant treatment or crop injury may result.

Rhizome Johnsongrass Control with Treflan 5 plus Sencor or Treflan 5 plus Lexone Tank Mix

Rhizome johnsongrass control with Treflan 5 plus Sencor or Lexone requires application for two consecutive years. Apply Treflan 5 plus Sencor or Lexone as a preplant incorporated treatment up to two weeks before planting. This tank mix controls weeds susceptible to Treflan 5 plus additional weeds listed on the label for Sencor or Lexone.

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

Precaution: Refer to the label for Sencor or Lexone for application rates, additional use directions, precautions and limitations prior to applying Treflan 5 plus Sencor or Lexone tank mix. Carefully follow all use precautions on the labels for Sencor or Lexone.

Wild Cane (Shattercane) Control

Follow recommended soil preparation and application procedures for Treflan 5. 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 Treflan 5.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.6 |
| Fine | 2.0 |

Incorporation: Deep incorporation with a tandem disc is essential for good wild cane control. Incorporate Treflan 5 thoroughly with a disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary with the second in a different direction than the first.

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

Tank Mix. Overlay and Postemergence Recommendations

Treflan 5 In Tank Mix

Treflan 5 may be tank mixed with Sencor, Lexone, Canopy, Lasso, Dual, Preview or Vernam and applied as a preplant soil incorporated treatment to control additional weeds in soybeans. Refer to the tank mix product label for weeds controlled, application rates, additional use directions, precautions and limitations before use.

Treflan 5 plus Command (Reduced Rate) and Treflan 5 plus Command and Lexone or Treflan 5 plus Command and Sencor Tank Mixes (Not For Use In California): Treflan 5 may be tank mixed with Command, Command plus Lexone or Command plus Sencor. Apply the tank mix as a preplant incorporated treatment up to 3 weeks before planting.

Note: The use of an agriculturally approved drift reducing additive is required at finished spray volumes of 10-15 gal/acre. Use nozzles suitable for broadcast boom application of herbicides. Coarse sprays are less likely to drift out of the target area than fine sprays. Application to overly moist or wet soils will increase the potential for off-site movement of Command vapors and may result in poor soil incorporation and unsatisfactory weed control. These directions must be followed to reduce the potential for off-site movement of Command vapors and potential injury to desirable vegetation including adjacent crops, trees and ornamentals.

Incorporation: Tank mixes containing Command must be incorporated immediately after application. Follow other soil preparation, application and incorporation procedures for Treflan 5.

Treflan 5 plus Command: Use the Treflan 5 plus Command tank mix to control velvetleaf and weeds susceptible to Treflan 5.

Control of jimsonweed, annual morningglory, prickly sida, common ragweed, smartweed and venice mallow may be erratic, ranging from poor to excellent depending upon soil temperature, time of weed germination, depth of weed seed in the soil and the amount and timing of soil moisture. Control may be improved with timely cultivation.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) | Command 4 E.C. (pints) |
|--------------|----------------------|---------------------------|
| Coarse | 0.8 | 0.75 |
| Medium | 1.2 | 1.12 |
| Fine | 1.6 | 1.5 |

Treflan 5 plus Command and Lexone or Treflan 5 plus Command and Sencor: Use the Treflan 5 plus Command and Lexone or Sencor tank mix to control weeds susceptible to Treflan 5 plus additional weeds listed on the labels for Command and Lexone or Sencor.

Treflan 5 plus Command and Lexone or Sencor also provides partial control or suppression of cocklebur, annual morningglory and giant ragweed. Control of these weeds may be erratic, ranging from poor to excellent depending upon soil temperature, time of weed seed germination, depth of weed seed in the soil and the amount and timing of soil moisture. Control may be improved with timely cultivation.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) | Command 4 E.C. (pints) | Lexone 4L or Sencor 4 (pints) | Lexone or Sencor DF (pounds) |
|--------------|----------------------|------------------------------|-------------------------------------|------------------------------------|
| Coarse | 0.8 | 0.5 | 0.33-0.5 [†] | 0.25-0.33 [†] |
| Medium | 1.2 | 0.75 | 0.5-0.75 | 0.33-0.5 |
| Fine | 1.6 | 1.12 | 0.75-1.0 | 0.5-0.67 |

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

Precautions:

- Off-site movement of spray drift or vapors of Command can cause foliar whitening or yellowing of adjacent crops, trees and ornamental plants which is usually temporary in nature but can result in permanent injury or death of the plants if the exposure is excessive. Prior to making application of this product, read and strictly follow all precautions, rotational crop guidelines and application instructions on the label for Command.
- Refer to the labels for Lexone and Sencor for additional use directions, precautions and limitations before applying Treflan 5 plus Lexone or Treflan 5 plus Sencor tank mix.

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

Apply Treflan 5 as a preplant soil incorporated treatment. Additional weeds tolerant to Treflan 5 may be controlled using overlay preemergence applications of Canopy, Dual, Gemini, Lasso, Lexone, Lorox, Lorox plus, Preview, Pursuit[†], Scepter^{††} or Sencor or other products registered for preemergence use on soybeans, unless use following Treflan 5 is specifically prohibited by the manufacturer. Consult the manufacturer's labels for application rates, additional weeds controlled, additional use directions and precautions before use.

[†]The use of Pursuit is limited to certain states. Use Pursuit as an overlay treatment following Treflan 5 only in states specified on the label for Pursuit.

^{††}Use of Scepter is limited to certain states. Do not use the overlay preemergence application with Scepter following a preplant incorporated treatment with Treflan 5 in the "Northern Use Area" as defined by the label for Scepter.

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

Apply Treflan 5 as a preplant soil incorporated treatment. Additional weeds tolerant to Treflan 5 may be controlled using postemergence applications of Basagran, Blazer, Classic, Cobra, Galaxy, Pinnacle,

Pursuit †, Reflex, Scepter ††, Storm, or Tackle or other products registered for postemergence use on Soybeans, unless use following Treflan 5 is prohibited by the manufacturer. Consult the manufacturer's labels for application rates, additional weeds controlled additional use directions, precautions and limitations before use.

†Use of Pursuit is limited to certain states. Use Pursuit as a postemergence treatment following Treflan 5 only in states specified in the label for Pursuit.

††Use of Scepter is limited to certain states. Do not use Scepter as a postemergence application following a preplant incorporated treatment with Treflan 5 in the "Northern Use Area" as defined by the label for Scepter.

SUGAR BEETS

Treflan 5 - Alone

Apply Treflan 5 as an over-the-top spray and incorporate. Apply from the time the first true leaves have formed until plants are 6 inches tall.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 |
|--------------|-----------|
| | (pints) |
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.0-1.2 |

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

Precaution: Exposed beet roots should be covered with soil before application of Treflan 5 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 Treflan 5 in sugar beets. Incorporation with tine-tooth harrow requires 2 passes in opposite directions over the same set of rows. Set the harrow to cut 1 to 2 inches deep and operate at 3 to 6 mph. Set incorporation equipment carefully to avoid damage to sugar beet tap root. Use application procedures and broadcast application rates recommended in preceding section.

Treflan 5 plus Eptam Tank Mix

Treflan 5 may be tank mixed with Eptam and applied as an over the top spray followed by incorporation to control additional weeds. Use application rates recommended for sugar beets "Treflan 5 - Alone", above. Refer to the label for Eptam for weeds controlled, application rates, additional use directions, precautions and limitations before use.

SUGARCANE

Treflan 5 - Alone

Apply and incorporate Treflan 5 twice a year. Make the first application of Treflan 5 in the fall on firmly packed beds immediately after the seed pieces are planted. Make the second application of Treflan 5 in the spring before or shortly after the cane emerges. Loosen rain-packed beds 2-3 inches deep before the spring application. Take care that incorporation equipment does not damage the seed pieces or emerging shoots.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 |
|--------------|---------------------|
| All Textures | (pints) 1.6-3.2† |

†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 Treflan 5 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 Treflan 5 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 Treflan 5 just before anticipated rainfall in non-irrigated and furrow-irrigated sugarcane. Irrigate as soon as possible after applying in drip-irrigated or sprinkle-irrigated sugarcane to activate Treflan 5.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 |
|--------------|--------------------|
| All Textures | (pints) 4.8-6.4 |

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

Apply and incorporate Treflan 5 in spring from shortly before or after cane emergence until layby. Apply after beds have been shaved or false shaved. Loosen rain-packed beds 2 to 3 inches deep before application. Avoid incorporation equipment damage to seed pieces or emerging shoots. Incorporate with a rolling cultivator or bed chopper for all soil textures. Set rolling cultivator to cut 2 to 4 inches deep and operate at 6 to 8 mph. Set bed chopper to cut 3 to 4 inches deep and operate 4 to 6 mph. Two incorporation passes are necessary.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 |
|--------------|---------------------|
| All Textures | (pints) 1.6-3.2† |

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

Itchgrass (Ragougrass) Control: (For Use In Louisiana)

Apply and incorporate Treflan 5 on plant or ratoon cane. Follow use directions in preceding section for layby application.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 |
|--------------|--------------------|
| All Textures | (pints) 1.6-3.2 |

SUNFLOWER

Treflan 5 - Alone

Apply and incorporate Treflan 5 in the spring before planting or in the fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

- Coarse and medium soils with 2-5% organic matter - 1.2 to 1.6 pints
- Fine soils with 2-5% organic matter - 1.6 pints.
- Soils with 5-10% organic matter - 1.6 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Treflan 5 plus Eptam Tank Mix

Treflan 5 may be tank mixed with Eptam and applied as a preplant incorporated treatment to control additional weeds in sunflowers in Minnesota, North Dakota and South Dakota. Refer to the label for Eptam for application rates, additional use directions, precautions and limitations before use.

TOMATO

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

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

- Coarse and medium soils with 2-5% organic matter - 1.2 pints
- Fine soils with 2-5% organic matter - 1.6 pints
- Soils with 5-10% organic matter - 1.6 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

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

Application to New Plantings of Citrus, Fruit and Nut Crops

For new plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees, apply and incorporate Treflan 5 before planting.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8 |
| Medium | 1.0-1.2 |
| Fine | 1.2-1.6 |

- All soils with 2-5% organic matter - 1.2-1.6 pints
- All soils with 5-10% organic matter - 1.6 pints
- Use lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

Application to New Plantings of Vineyards

For new plantings of vineyards, apply and incorporate Treflan 5 before planting.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|--------------|----------------------|
| Coarse | 0.8-1.2 |
| Medium | 1.2-2.4 |
| Fine | 2.4-3.2 |

- Soils with 2-10% organic matter - 3.2 pints
- Use lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

Note: Do not use more than 1.6 pt/acre on heat-treated grape rootings.

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

Treflan 5 may be applied in established non-bearing and bearing vineyards and plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees. In established plantings, apply Treflan 5 as a directed spray to the soil and use incorporation methods not injurious to the crop. Do not apply to vineyards within 60 days of harvest.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 (pints) |
|-------------------|----------------------|
| All Soil Textures | 1.6-3.2 |

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

Rhizome Johnsongrass Control - Special Two-year Use Program

Treflan 5 may be applied for two consecutive years in a special use program to control rhizome johnsongrass in established vineyards and plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerine and walnut trees. Do not apply to vineyards within 60 days of harvest.

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

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Broadcast Application Rates/Acre:

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

| Soil Texture | Treflan 5 |
|-------------------|-----------|
| | (pints) |
| All Soil Textures | 3.2 |

Incorporation: Incorporate Treflan 5 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 Treflan 5.

Precautions: Do not use 3.2 pint rate on new plantings or crop injury may result. Do not interplant orchards or vineyards with other crops. If treated vineyards and orchards are diverted to other crop uses, then in the next cropping season plant only those crops for which Treflan 5 has been registered as a preplant incorporated treatment.

Bindweed Control in California

Treflan 5 can be applied using a specially equipped spray blade for the control of field bindweed in vineyards and in plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerine and walnut trees.

Soil Preparation: Destroy existing weeds with soil tillage before applying Treflan 5. Thorough tillage is necessary to prevent trash from interfering with operation of the spray blade.

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

Application: Apply Treflan 5 in 40 to 80 gallons of water per acre. Operate blade at a depth of 4 to 6 inches.

Broadcast Application Rates/Acre:

| Soil Texture | Treflan 5 |
|-------------------|-----------|
| | (pints) |
| All Soil Textures | 3.2 |

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 Treflan 5. 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.

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