



Treflan*

80D.C.

Herbicide

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

Active Ingredient:

trifluralin: α, α, α -trifluoro-2,6-dinitro- <i>N,N</i> -dipropyl- <i>p</i> -toluidine	80.0%
Inert Ingredients	20.0%
Total	100.0%

Contains 0.8 pounds active ingredient per pound of product.

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

Treflan* 80D.C. manufactured by the Cystal™ ** Process

EPA Reg. No. 62719-216

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

CAUTION PRECAUTION:

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

Causes Eye Injury • Harmful If Inhaled Or Absorbed Through the Skin • May Cause Skin Sensitization Reactions In Certain Individuals

Avoid contact with skin, eyes or clothing. Avoid breathing dust. Use safety glasses and protective clothing such as coveralls, a long sleeved shirt and impermeable gloves when handling this product. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling. Do not contaminate foodstuffs or feeds.

Reentry: Do not apply this product in a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried.

First Aid

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

If on skin: Wash immediately with soap and water.

If swallowed: Drink 1 to 2 glasses of water. Induce vomiting by placing finger in back of throat. Call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled: Remove individual to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth, and get medical attention.

Environmental Hazards

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

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

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

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

BEST AVAILABLE DATA

NOT REVIEWED
In Accordance with FR Notice 82-24
Based on latest labeling data

9-23-91

Treflan* 80D.C.

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Directions for Use

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

Read all Directions for Use carefully before applying.

STORAGE AND DISPOSAL

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

Storage: Store in original container only. In case of leak or spill, contain and dispose as waste.

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

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General Information

Treflan 80D.C. herbicide is a selective herbicide for the preemergence control of annual grasses and broadleaf weeds. Treflan 80D.C. may be applied in liquid sprays of water or liquid fertilizer. To prevent loss of herbicidal activity, Treflan 80D.C. must be soil incorporated within 24 hours after application. Treflan 80D.C. may be tank mixed or followed by over-lay or postemergence treatments with other herbicides to improve the spectrum of weeds controlled. Treflan 80D.C. controls weeds by disrupting growth processes during germination. Treflan 80D.C. does not control established weeds.

General Use Precautions

Applied according to directions and under normal growing conditions, Treflan 80D.C. will not harm the treated crop. Overapplication may result in crop injury or rotational crop damage from soil residue. Uneven application or improper incorporation of Treflan 80D.C. can result in erratic weed control or crop injury. Seeding disease, cold weather, deep planting, excessive moisture, high salt concentration or drought may weaken crop seedlings and increase the possibility of damage from Treflan 80D.C. Under these conditions, delayed crop development or reduced yields may result.

Do not apply Treflan 80D.C. to soils that are wet or are subject to prolonged periods of flooding as poor weed control may result.

Do not use Treflan 80D.C. on any crop grown in Pecos county or Reeves county, Texas.

In Montana, uses of Treflan 80D.C. are limited to those described in supplemental labeling. Refer to supplemental labeling for crops and specific use directions.

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 80D.C. Plowing to a depth of 12 inches prior to planting these crops will reduce the possibility of crop injury. If land has not been irrigated, these crops should not be planted for 18 months after a spring application or 20 months after a fall application of Treflan 80D.C.

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

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

In Arizona, Colorado, California, Idaho, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming: Proso millet, corn, sorghum (milo), oats and annual or perennial grass crops or grass mixtures should not be planted for 12 months after a spring application or 14 months after a fall application of Treflan 80D.C. to avoid the possibility of crop injury. If land has not been irrigated, these crops should not be planted for 18 months after a spring application or 20 months after a fall application. Moldboard plowing to a depth of 12 inches before planting these crops will reduce the possibility of crop injury.

In Minnesota, North Dakota and South Dakota: Proso millet, sorghum (milo), oats and annual or perennial grass crops or grass mixtures should not be planted for 18 months after a spring application or 21 months after a fall application of Treflan 80D.C.

In those portions of Kansas, Nebraska, Oklahoma and Texas that receive less than 20 inches of rainfall and irrigation to produce a crop: Do not plant proso millet, sorghum (milo), oats and annual or perennial grass crops or grass mixtures for 18 months after an application of Treflan 80D.C. In sorghum, cool wet weather conditions during early growth stages may increase the possibility of crop injury. In areas receiving more than 20 inches of rainfall and irrigation, these crops should not be planted for 12 months after a spring application or 14 months after a fall application of Treflan 80D.C.

Other Crops

Vegetable crops other than those listed on this label for use with preplant soil incorporated application of Treflan 80D.C. should not be planted within 5 months after an application of Treflan 80D.C.

Soil Texture Guide for Application Rates

Rate recommendations for incorporated treatments of Treflan 80D.C. are based on "Soil Texture Class" (coarse, medium or fine) and soil organic matter content. A fine textured soil (e.g., clay loam) will require higher application rate than a coarse textured soil (e.g., loamy sand). In the table below, find the "Soil Texture Class" (coarse, medium or fine) corresponding to the "Soil Texture to be Treated". Choose the proper rate for each application based on the "Soil Texture Class" and specific crop recommendations. Do not exceed recommended rates.

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

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

Mixing Directions

Treflan 80D.C. - Alone

Treflan 80D.C. may be mixed with water or most liquid fertilizer materials. Prior to mixing Treflan 80D.C. in liquid fertilizer, refer to the label section entitled "Testing for Compatibility in Liquid Fertilizers" for testing procedures to determine compatibility with the liquid fertilizer product to be used. The combination of Treflan 80D.C. with solution and suspension-type fertilizers provides weed and grass control equal to water sprays.

Fill spray tank 1/3 to 1/2 full with clean water or liquid fertilizer. Start agitation. Add correct amount of Treflan 80D.C. and continue agitation while filling tank to required spray volume.

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

Treflan 80D.C. In Tank Mix

Treflan 80D.C. may be tank mixed with other products and applied with water or most liquid fertilizer materials. Prior to mixing tank mixes containing Treflan 80D.C. with liquid fertilizer, refer to label section entitled "Testing for Compatibility in Liquid Fertilizers" for testing procedures to determine tank mix compatibility with the liquid fertilizer product to be used.

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

1. **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 Treflan 80D.C. to the spray tank and allow to mix thoroughly. Add tank mix products 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. Then add 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 80D.C. alone or in tank mix combination with dry flowables (DF), wettable powders (WP), aqueous suspensions (AS), flowables (F), liquids (L), or solutions (S) may not combine properly with some liquid fertilizer materials. Small quantities should always be tested before full scale mixing. Follow the testing procedure below to determine if a compatibility agent is needed and which one works best in your herbicide/fertilizer mixture. The seven compatibility agents listed at the end of this section have been thoroughly tested. Other surfactants commercially available may or may not be suitable for use with liquid fertilizers.

Testing Procedure

1. Add 1 pint of the liquid fertilizer to a quart jar.
2. Add 1 to 4 teaspoon(s) of the DF, WP, AS, F, or L formulation (depending on mixing 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 80D.C. to the jar and shake well. Add solution herbicides to the mixture last and agitate. Observe the jar for about 10 minutes. If materials rise to the surface and form a thick layer (oily curds) that will not redispense 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 redispense the mixture. If oily curds form and will not redispense, 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 redispense with gentle agitation of the jar.

Compatibility Agents

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

1. Sponto 168D (Witco Chemicals Co., Chicago, IL)
2. Compat (Farm Chemicals, Inc., Aberdeen, NC) (Not for use in California)
3. Unite (Hopkins Ag Chemical, Madison, WI)
4. T-Mu:z 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. Kam-Link (Universal Coop, Minneapolis, MN)

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

Precautions:

Do not use the compatibility agents listed above for tank mixes in plain water.

Read the compatibility agent label for use directions and precautions before use

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 80D.C. in 10 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. Do not aerially apply.

Application Timing

Spring Application

Apply and incorporate Treflan 80D.C. any time after January 1 when soil can be worked and is in a condition which allows thorough mixing to insure uniform incorporation. See "Approved Crops" section for application timing recommendations for specific crops.

Fall Application

Fall application can be used for all crops for which Treflan 80D.C. is recommended as a preplant incorporated treatment. Refer to "Approved Crops" section for any crop specific fall application instructions.

In the states of California, North Dakota, South Dakota and Minnesota, apply and incorporate Treflan 80D.C. any time between September 1 and December 31. In all other states, fall apply Treflan 80D.C. between October 15 and December 31.

Ground may be bedded up over winter. On bedded ground, reduce beds to desired height before planting, by moving some treated soil from beds into furrows. Where soil is left flat over winter, care should be taken not to turn up untreated soil during spring bedding operations. Destroy established weeds during seedbed preparation. Weeds established in furrows as a result of exposing untreated soil should be destroyed before planting. Fall application of Treflan 80D.C. is not recommended on fields which remain wet or are subject to periods of flooding.

Preemergence Application Immediately After Planting

Apply and incorporate Treflan 80D.C. immediately after planting and prior to crop germination. Adjust incorporation equipment so as to not disturb planted seed. Refer to the "Approved Crops" section of this label for crop specific instructions.

Postemergence and Layby Application

Apply and incorporate Treflan 80D.C. at the recommended rate to the established crop at or before the last cultivation. Required preharvest intervals for treatments with Treflan 80D.C. for certain crops are specified in the "Approved Crops" section of this label. Crop cover may prevent uniform soil coverage from over-the-top sprays. To avoid this problem, use drop nozzles or directed sprays to achieve uniform soil coverage.

Incorporation Directions

Soil Preparation and Incorporation

Ground cover, such as crop residues or existing weeds, can interfere with uniform soil incorporation of Treflan 80D.C. A manageable level of ground cover will allow uniform incorporation into the top 2 to 3 inches of soil. Ground cover and crop residues, if excessive, should be reduced by appropriate soil tillage prior to application.

Break up clods using tillage equipment prior to application of Treflan 80D.C. Treflan 80D.C. must be incorporated within 24 hours after application. With most equipment and methods of application, a second incorporation is required and may occur any time before planting. The second incorporation should be in a different direction, and to avoid bringing untreated soil to the surface, should not be deeper than the first.

General Soil Conditions: The soil surface should be smooth enough to allow for uniform application and efficient incorporation of Treflan 80D.C. Apply when soil moisture is sufficient to allow the breakup of large clods and uniform mixing during the incorporation process. Soil compaction and/or non-uniform incorporation may occur if soil is excessively moist.

Incorporation in Bedded Culture: In bedded culture, Treflan 80D.C. should be incorporated to a depth of 2 to 3 inches in the final seedbed.

Application Prior to Bedding: Apply Treflan 80D.C. and incorporate one time with recommended equipment. The bedding operation serves as the second incorporation. Do not expose untreated soil during post-bedding operations such as planting since removal of treated soil during planting can allow weed germination and establishment in the drill row.

Application After Bedding: Knock off beds to planting height before applying Treflan 80D.C. Apply and incorporate Treflan 80D.C. with recommended equipment that will conform to the shape of the bed. Do not expose untreated soil.

Cultivation After Planting: Treated crops may be shallowly cultivated without reducing the weed control activity of Treflan 80D.C. Limit depth of cultivation to the zone of treated soil (2 to 3 inches) to avoid moving untreated soil to the surface. Exposure of untreated soil may cause loss of weed control.

Incorporation Equipment

Use incorporation equipment capable of mixing Treflan 80D.C. uniformly into the top 2 to 3 inches of the final seedbed. Use of inappropriate equipment or improper use of recommended equipment may result in erratic weed control and/or crop injury. Incorporation equipment such as a tandem disc will mix Treflan 80D.C. approximately half as deep as the equipment is set to operate. For example, a disc set to cut four inches deep will mix most of the Treflan 80D.C. within the top 2 inches of soil. Any recommended incorporation implement may be used alone or in combination with any other recommended implement. Two incorporation passes are required unless otherwise specified.

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 flexible 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. Trellan 80D.C. can be incorporated with one pass when using a combination seedbed conditioner. Two incorporations are required under conditions which prevent optimum soil mixing such as excessive trash, roughness, high clay content or soil moisture.

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

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

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

P.T.O.-Driven Equipment (tillers, cultivators, hoes): Adjust equipment to incorporate Trellan 80D.C. into the top 2 to 3 inches of the final seedbed with rotors spaced to provide a clean sweep of the soil. Only one incorporation is necessary. P.T.O. equipment should not be operated more than 4 mph.

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

Weeds Controlled by Trellan 80D.C.

Grass Weeds

Common name	Scientific Name
annual bluegrass	<i>Poa annua</i>
barnyardgrass (watergrass)	<i>Echinochloa crus-galli</i>
brachiaria (signalgrass)	<i>Brachiaria spp.</i>
bromegrass (cheatgrass) (downy brome)	<i>Bromus tectorum</i>
cheat (chess)	<i>Bromus secalinus</i>
crabgrass (large crabgrass) (smooth crabgrass)	<i>Digitaria spp.</i>
foxtail (bottlegrass) (bristleglass) (giant foxtail) (green foxtail) (foxtail millet) (pigeongrass) (robust foxtail) (yellow foxtail)	<i>Setaria spp.</i>
guineagrass (See special instructions for control in sugarcane in the "Approved Crops" section.)	<i>Panicum maximum</i>
itchgrass (raouigrass) (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>
junglece oats, wild†	<i>Echinochloa colonum</i>
panicum fall panicum (spreading panicgrass - see special instructions for control in cotton and soybeans in the "Approved Crops" section.)	<i>Avena fatua</i> <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>
sandbur (burgrass)	<i>Cenchrus incertus</i>
sprangletop stinkgrass (lovegrass)	<i>Leptochloa filiformis</i> <i>Eragrostis cilianensis</i>
shattercane (wild cane) (See special instructions for control in soybeans in the "Approved Crops" section.)	<i>Sorghum bicolor</i>
woolly cupgrass	<i>Eriochloa villosa</i>
† When applied as a preplant incorporated treatment, Trellan 80D.C. controls wild oats that germinate in the treated zone. Wild oat control is not claimed for incorporated uses in small grains.	

Broadleaf Weeds

Common Name	Scientific Name
carpetweed	<i>Mollugo verticillata</i>
chickweed	<i>Stellaria media</i>
field bindweed (See special instructions for control in fruit and nut crops and vineyards in the "Approved Crops" section.)	<i>Convolvulus arvensis</i>
goosefoot	<i>Chenopodium hybridum</i>
henbit	<i>Lamium amplexicaule</i>
knottweed	<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) (See special instructions for control in soybeans in "Approved Crops" section.)	<i>Amaranthus spp.</i>
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

Trellan 80D.C. is approved for the following special use programs. Refer to "Approved Crops" section of this label for details on soil preparation, use rates, application, soil incorporation, and precautions to each type or program.

Cotton

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

Soybean

- Fall Panicum Control
- Pigweed and Seeding Johnsongrass Control
- Additional Weed and Grass Control (Gulf Coast Counties of Texas)
- Rhizome Johnsongrass Control
- Charcoal Soils in Arkansas, Louisiana and Mississippi
- Red Rice Control in Arkansas, Louisiana, Mississippi and Texas
- Wild Cane (shattercane) Control
- Treflan 80D.C. 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 80D.C. with ground 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 80D.C. (ounces)
Coarse	15
Medium	20
Fine	20

Surface Applications (Water Incorporated)

Treflan 80D.C. may be surface applied for annual grass control in established alfalfa by ground broadcast application equipment.

Surface Applications Activated by Rainfall or Irrigation

Broadcast surface applications of Treflan 80D.C. to established alfalfa may be activated by rainfall, sprinkler, flood or furrow irrigation. Rainfall or a single overhead sprinkler irrigation of 0.5 acre inch or more is required to activate Treflan 80D.C. If activated by furrow irrigation, care should be taken to thoroughly wet beds between furrows. If rainfall or irrigation has not occurred within 3 days after application, Treflan 80D.C. may be mechanically incorporated. If mechanically incorporated, use equipment that will insure thorough soil mixing with minimum damage to the established alfalfa.

Application Timing and Weeds Controlled

Applications to established alfalfa for annual grass control can be made during dormancy or semi-dormancy, or during the growing season immediately after a cutting. Because Treflan 80D.C. does not control established weeds, application must be made prior to the expected time of weed germination. Bromegrass and cheat begin to germinate in the fall with the onset of cooler weather. To control these weeds, apply Treflan 80D.C. immediately after a cutting between August 1 and October 1, but prior to weed germination. When fall applied, Treflan 80D.C. controls bromegrass and cheat in addition to other labeled weeds that germinate after application.

The following weeds are controlled when Treflan 80D.C. is surface applied and incorporated by rainfall or irrigation:

barnyardgrass	crabgrass
bromegrass	cupgrass
(cheatgrass)	foxtail
(downy brome)	juncelence
(cheat)	sandbur
(chess)	wildbarley
canarygrass	

Broadcast Application Rates/Acre:

Soil Texture	Treflan 80D.C. (ounces)
All Soil Textures	40

Precautions:

- Do not cut or graze alfalfa within 21 days after application of Treflan 80D.C.
- Apply no more than 40 oz of Treflan 80D.C. during any growing season. In the growing season following application of 40 oz of Treflan 80D.C. to alfalfa, plant only those crops for which Treflan 80D.C. is registered as a preplant treatment or crop injury may occur.

Tank Mix Combinations

Other products registered for use on established alfalfa may be ground broadcast in tank mix combination with Treflan 80D.C. or applied as sequential treatments following application of Treflan 80D.C. Tank mixes containing Treflan 80D.C. must be applied when alfalfa is dormant or semi-dormant, or immediately after a cutting.

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

ASPARAGUS - ESTABLISHED

Apply Treflan 80D.C. to established asparagus as a single or split application. Treflan 80D.C. will suppress volunteer seeding asparagus and field bindweed when applied as directed. Follow recommended soil preparation, application and incorporation procedures for Treflan 80D.C.

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 80D.C.	
	Split Application	Single Application
	Before and After Harvest (ounces)	Before or After Harvest (ounces)
Coarse	10 + 10	20
Medium	15 + 15	30
Fine	20 + 20	40

- Do not apply more than 20 oz/acre on coarse soils, 30 oz/acre on medium soils or 40 oz/acre on fine soils during any calendar year.

BEANS - DRY BEANS**Treflan 80D.C. - Alone**

Apply and incorporate Treflan 80D.C. in the spring before planting or in the fall. See instructions for fall application of Treflan 80D.C. under the heading "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coarse	10
Medium	12.5 - 15
Fine	15 - 20

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 oz
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Treflan 80D.C. plus Eptam Tank Mix

Treflan 80D.C. 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 80D.C. - 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 80D.C. as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coarse	10
Medium	15
Fine	15

BEANS - LIMA BEAN AND SNAP BEAN

Apply Treflan 80D.C. as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coarse	10
Medium	10
Fine	15

CARROT

Apply Treflan 80D.C. as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coarse	10
Medium	12.5-15
Fine	15-20

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 oz
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

CASTOR BEAN

Apply Treflan 80D.C. as soil incorporated treatment, before or immediately after planting. If applied and incorporated after planting, set equipment so as to not disturb the seed.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coarse	10
Medium	12.5 - 15
Fine	15 - 20

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 oz
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

CELERY

Apply Treflan 80D.C. as a soil incorporated treatment. Treflan 80D.C. may be applied to direct seeded or transplant celery before planting, at planting or immediately after planting.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coarse	10
Medium	12.5 - 15
Fine	15 - 20

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 oz
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

CHICORY/ENDIVE

Apply Treflan 80D.C. as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coarse	10
Medium	15
Fine	20

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 oz

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COLE CROPS - BROCCOLI, BRUSSELS SPROUTS, CABBAGE AND CAULIFLOWER

Direct Seeded Cole Crops

Apply Treflan 80D C. as a preplant soil incorporated treatment

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coarse	10
Medium	10
Fine	15

- Soils with 2-5% organic matter - 15 oz

Precaution: Direct seeded cole crops exhibit marginal tolerance to higher than recommended rates of Treflan 80D.C. Stunting or reduced stands may occur.

Transplanted Cole Crops

Apply and incorporate Treflan 80D.C. prior to transplanting.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coarse	10
Medium	12.5 - 15
Fine	15 - 20

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 oz
- 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 80D C. as a postemergence treatment following cultivation or use of a preemergence herbicide. Treflan 80D.C. does not control established weeds. Apply when crop is well established (2 true leaf stage or taller). Apply as an over-the-top spray or as a directed spray using drop nozzles if foliage prevents uniform coverage of the soil surface.

Incorporation Directions

Applications of Treflan 80D.C. must be mechanically incorporated within 24 hours. Mechanical incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. The sweep-type cultivator should have 3 to 5 sweeps per row middle and be operated at a speed that will provide vigorous soil mixing. 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 80D.C. (ounces)
Coarse	7.5-10†
Medium	10-15
Fine	15-20

- † Apply 10 to 15 oz/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 80D.C. to corn as a preplant or preemergence treatment or crop injury may occur.
- Where corn is planted in a furrow, Treflan 80D.C. should be applied only after a cultivation to move soil into the row.

Treflan 80D.C. plus Atrazine Tank Mix

Treflan 80D.C. may be applied in tank mix combination with atrazine plus an emulsifiable oil or oil concentrate when corn is at the 2-leaf stage of growth or taller and weeds are no more than 1 1/2 inches in height. A period of 24 to 48 hours is required to obtain atrazine postemergence activity after which the preemergence activity of the Treflan 80D.C. plus atrazine combination may be activated by 0.5 inch or more of rainfall or overhead sprinkler irrigation or mechanical incorporation. Use the application rates and incorporation methods for Treflan 80D.C. recommended under "Postemergence Incorporated Treatment" in the "Corn - Field Corn Only" section of this label.

Precautions:

- Where corn is planted in a furrow, Treflan 80D.C. should be applied only after a cultivation to move soil into the row.
- Refer to the product label for atrazine for application rates, additional use directions, precautions and limitations before use.

COTTON

Treflan 80D.C. - Alone

Apply Treflan 80D.C. to cotton as a soil incorporated treatment. Treflan 80D.C. may be applied before planting, immediately after planting, to the established crop up to layby, or in the fall. Refer to instructions for fall application under "Application Timing" in the "General Information" section of this label. Follow recommended soil preparation, application and incorporation procedures in the "General Information" section of this label. When incorporating Treflan 80D.C. after planting, but prior to crop emergence, set equipment so as to not disturb planted seed. Postemergence application of Treflan 80D.C. may be made from the 4 true leaf stage of growth up to layby, but not less than 90 days before harvest. Apply postemergence treatments as a directed spray beneath cotton plants to soil between the rows. Use the same application rates for preplant, preemergence and layby treatments.

Broadcast Application Rates/Acre:			
Soil Texture	Treflan 80D.C.		
	Spring Application†	Fall Application	
		Eastern U.S.††	Western U.S.†††
Coarse	(ounces) 10	(ounces) 20	(ounces) 15
Medium	12.5-15	20	20
Fine	15-20	25	25

† Spring Application:

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 to 25 oz
- 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, 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 80D.C. in established cotton from the 4 true leaf stage of growth up to layby, but not less than 90 days before harvest. Apply uniformly to the soil surface, using drop nozzles if necessary. Use the application rates recommended above for preplant incorporated treatments. Soil incorporate using one pass of a sweep-type cultivator or properly adjusted rolling cultivator. Operate cultivation equipment at speeds sufficient to provide vigorous soil mixing and exercise care to avoid mechanical injury to the crop.

Special Use Programs

Fall Panicum Control

Apply and incorporate a broadcast rate of 20 oz/acre on both coarse and medium soils.

Pigweed and Seedling Johnsongrass Control

Apply Treflan 80D.C. as a preplant incorporated treatment.

Broadcast Application Rates/Acre: In Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, southeastern Missouri (Bootheel), North Carolina, South Carolina, Tennessee and southern Virginia, apply Treflan 80D.C. at the following broadcast rates:

Soil Texture	Treflan 80D.C. (ounces)
Coarse	10 - 15
Medium	15 - 20
Fine	20

(Exception: Louisiana, where 30 oz/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 80D.C. 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 80D.C. at the following broadcast rates:

Soil Texture	Treflan 80D.C. (ounces)
Coarse	15
Medium	20
Fine	30

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

Rhizome johnsongrass control with Treflan 80D.C. requires double application rates for 2 consecutive years. Commercially acceptable control cannot be obtained with only one year of double rate use of Treflan 80D.C. Carefully follow all special use directions.

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

Broadcast Application Rates/Acre:

Soil Texture	Treflan 80D.C. (ounces)
Coarse	20
Medium	30
Fine	40

Spring Application: Apply Treflan 80D.C. any time before planting in the spring for 2 years in succession.

Fall Application: Apply Treflan 80D.C. between October 15 and December 31 for 2 years in succession.

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

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

Precautions: In the season following a double rate treatment, plant only rice or those crops for which Treflan 80D.C. can be applied as a preplant treatment or crop injury may occur.

Tank Mixes, Overlay and Postemergence Treatments

Treflan 80D.C. in Tank Mix

Treflan 80D.C. 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 80D.C. recommended for cotton "Treflan 80D.C. - Alone".

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

Treflan 80D.C. - Preplant Incorporated Followed by Overlay Treatments

Apply Treflan 80D.C. as a preplant incorporated treatment. Additional weeds tolerant to Treflan 80D.C. may be controlled using overlay pre-emergence applications of Cotoran, Karmex, Zorial or other products registered for use on cotton, unless use following Treflan 80D.C. is specifically prohibited by the manufacturer. Consult the manufacturer's labels for additional weeds controlled, use directions, precautions and limitations before use.

Treflan 80D.C. - Preplant Incorporated Followed by Postemergence Treatments

Apply Treflan 80D.C. as a preplant incorporated treatment. Additional weeds tolerant to Treflan 80D.C. may be controlled using postemergence treatments of products registered for use on cotton, unless use following Treflan 80D.C. is specifically prohibited by the manufacturer. Consult the manufacturer's labels for additional weeds controlled, use directions, precautions and limitations before use.

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CUCURBITS - CANTALOUPE, CUCUMBER AND WATERMELON

Apply Treflan 80D C after emergence when plants have reached the 3 to 4 true leaf stage of growth. Apply as a directed spray to soil between the rows. Avoid foliage contact as slight crop injury may occur. Set incorporation equipment to move treated soil around the base of plants.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	12.5 - 15
Fine	15 - 20

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 oz
- 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 80D.C. in the fall for weed control in spring seeded flax. Incorporate once within 24 hours after application. The second incorporation may be performed in the spring prior to planting.

Special Instructions for Flax

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

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	15
Fine	20

FORAGE LEGUMES

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

Apply Treflan 80D C as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	10 - 15
Fine	15

- 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 80D.C. as a directed or over-the-top spray when grain sorghum is 8 inches tall or taller. Drop nozzles should be used if foliage prevents uniform soil coverage.

Soil Preparation: Cultivate before application of Treflan 80D.C. to remove established weeds and to cover the base of grain sorghum plants with soil. Cultivation equipment should be set to add approximately 1 inch of soil to the base of sorghum plants.

Incorporation Directions: Applications of Treflan 80D.C. must be mechanically incorporated within 24 hours after application. Mechanical incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. Sweep-type cultivators should have 3 to 5 sweeps per row middle and be operated at a speed that will provide vigorous soil mixing. Set middle sweeps so as to avoid exposing untreated soil. Adjust incorporation equipment so as to avoid mechanical injury to the crop.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	7.5 - 10
Medium	10 - 15
Fine	15 - 20

- Apply Treflan 80D C at lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

Treflan 80D.C. plus Atrazine Tank Mix

Treflan 80D C may be applied in tank mix combination with atrazine plus an emulsifiable oil or oil concentrate when grain sorghum is 8 inches tall or taller and weeds are no more than 1 1/2 inches in height. A period of 24 to 48 hours is required to obtain postemergence activity of atrazine after which the preemergence activity of the Treflan 80D C plus atrazine combination may be activated by 0.5 inch or more of sprinkler irrigation or mechanical incorporation. Use application rates and incorporation methods for Treflan 80D C recommended under "Postemergence Incorporated Treatment" in the "Grain Sorghum (Milo)" section of this label.

Precaution:

- Where grain sorghum is planted in a furrow, Treflan 80D C should be applied only after a cultivation to move soil into the row.
- Refer to the product label for atrazine for application rates, additional use directions, precautions and limitations before use.

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

Apply Treflan 80D C. to greens as a preplant soil incorporated treatment

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	15
Fine	15

- Soils with 2-10% organic matter - 15 oz

HOPS

Apply and incorporate Treflan 80D.C. to established crop during dormancy. Use incorporation equipment that will insure thorough soil mixing with minimal damage to crop stand.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	12.5 - 15
Fine	15

- Soils with 2-10% organic matter - 15 oz

MUSTARD - GROWN FOR SEED OR PROCESSED FOR FOOD

Apply Treflan 80D C. to mustard as a preplant soil incorporated treatment

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	15
Fine	15

- Soils with 2-10% organic matter - 15 oz

OKRA

Apply Treflan 80D C. as a soil incorporated treatment, before or immediately after planting. If applied and incorporated after planting, set equipment so as to not disturb the seed.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	12.5 - 15
Fine	15 - 20

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 oz
- 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 80D.C. to established onions as a soil incorporated treatment. Apply as a directed spray to soil between onion rows. Spray shields should be used to avoid injury to foliage or exposed bulbs. Do not apply within 60 days of harvest.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	7.5 - 10
Medium	10 - 12.5

- 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 80D.C. will not adversely affect onions. Diseases, improper incorporation depth, excessive moisture, high salt concentration or drought may weaken the crop and increase the possibility of damage from Treflan 80D.C. Under these conditions, delayed crop development or reduced yields may result.

PEAS - DRY PEA AND ENGLISH PEAS

Treflan 80D.C. - Alone

Apply and incorporate Treflan 80D.C. in the spring before planting or in the fall. Refer to instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:		
Soil Texture	Treflan 80D.C.	
	Spring Application	Fall Application†
	(ounces)	(ounces)
Coarse	10	10
Medium	10	12.5-15
Fine	15	15

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

† Treflan 80D.C. may be fall applied to Dry and English Peas in the states of Idaho, Oregon and Washington.

Treflan 80D.C. plus Far-Go Tank Mix (For Use in Idaho, Oregon and Washington)

Treflan 80D.C. may be tank mixed with Far-Go and applied as a pre-plant soil incorporated treatment to control wild oats in dry and English peas. Use application rates recommended for dry and English peas "Treflan 80D.C. - Alone", above. Refer to the label for Far-Go for application rates, additional use directions, precautions and limitations before use.

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PEAS - SOUTHERN PEAS

Apply as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	12.5 - 15
Fine	15 - 20

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- All soils with 5-10% organic matter - 20 oz
- Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

PEANUTS

Treflan 80D.C. - Alone

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

Apply and incorporate Treflan 80D.C. before planting, at planting or immediately after planting. When incorporating after planting, adjust equipment so as to not disturb planted seed.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	15

Treflan 80D.C. plus Vernam Tank Mix

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

Treflan 80D.C. may be tank mixed with Vernam and applied as a preplant incorporated treatment to control additional weeds. Use application rates recommended for peanuts "Treflan 80D.C. - Alone" above. Refer to the label for Vernam for application rates, additional use directions, cautions and limitations before use.

PEPPER (Transplant Only)

Apply and incorporate Treflan 80D.C. prior to transplanting.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	12.5 - 15
Fine	15 - 20

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 oz
- 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 80D.C. - Alone

Apply and incorporate Treflan 80D.C. 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 80D.C. after potato plants have fully emerged, do not completely cover the plants with treated soil. Likewise, do not completely cover plants during subsequent cultivations. Be careful that incorporation equipment does not damage potato seed pieces or elongating sprouts.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	12.5 - 15
Fine	15 - 20

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 oz
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Treflan 80D.C. in Tank Mix

Treflan 80D.C. plus Eptam Tank Mix - Post Plant Preemergence Treatment

Treflan 80D.C. may be tank mixed with Eptam and applied as a soil incorporated treatment to control additional weeds. Apply after planting, but before crop emergence. In areas where potatoes are normally dragged off, apply and incorporate up to or immediately following drag off. Use application rate recommended for potatoes "Treflan 80D.C. - Alone". Refer to the label for Eptam for application rates, additional use directions, precautions and limitations before use.

RADISH

Apply Treflan 80D.C. as a preplant soil incorporated treatment.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	15
Fine	15

RAPESEED (CANOLA)

Apply and incorporate Treflan 80D.C. in the spring before planting or in fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	15
Fine	20

Precaution: Do not apply Treflan 80D.C. to rapeseed (canola) grown in the state of Alaska.

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SAFFLOWER

Apply and incorporate Treflan 80D.C. in the spring before planting or in fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:		
Treflan 80D.C.		
Soil Texture	Spring Application	Fall Application†
	(ounces)	(ounces)
Coarse	10	15
Medium	12.5-15	20
Fine	15-20	25

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 25 oz
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

† Treflan 80D.C. may be fall applied to safflower in the states of Arizona, California, Idaho, Nevada, Oregon, Utah, Washington and Wyoming.

SMALL GRAINS - BARLEY, DURUM AND WHEAT

Special Precautions for Use of Treflan 80D.C. on Small Grains

Carefully follow directions for use of Treflan 80D.C. on small grains to minimize potential crop stress. Under certain conditions, delayed crop emergence and/or stand reduction may occur when Treflan 80D.C. is applied to barley, durum or wheat. The combined effect of certain cultural practices and unfavorable soil or environmental conditions may cause excessive crop seedling stress resulting in retarded crop growth, stand reduction and possibly reduced yield. For best results, observe the following cultural practices or precautions:

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

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

Do not exceed recommended application rates for Treflan 80D.C. This is particularly important on coarse textured or low organic matter soils.

Carefully follow incorporation directions. When applying preplant incorporated treatments, operate equipment at recommended depth and speed to place Treflan 80D.C. into the upper 1 to 1.5 inches of soil. If applied after planting, set equipment so as to not disturb planted seed.

Set drills to place seed at a 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 80D.C. is to be applied (avoid use of small seed with low starch reserves).

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

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

Do not fall apply Treflan 80D.C. in combination with any other preplant incorporated herbicide.

Soil characteristics and environmental conditions which may contribute to crop seedling stress that may be accentuated by use of Treflan 80D.C. include:

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

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

Note: Do not apply Treflan 80D.C. on small grains where a dinitroaniline herbicide such as Treflan 80D.C. was applied at a rate recommended for row crops (oil seeds) during the previous growing season.

Application Directions for Small Grains

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

Apply Treflan 80D.C. as a preplant incorporated treatment prior to planting spring seeded barley. Treflan 80D.C. 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 80D.C. in the soil surface.

Broadcast Application Rates/Acre: Apply at a rate of 10 oz/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 80D.C. in Small Grains" before application of Treflan 80D.C.
- While use of this weed control practice may result in a stand reduction, slight stand reductions do not normally affect yield.

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

Apply Treflan 80D.C. as a preplant incorporated treatment prior to planting spring seeded barley on land enrolled in acreage conservation reserve programs. Follow recommended soil preparation, application and incorporation procedures for Treflan 80D.C.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	15
Fine	15

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

Precautions: Use of this weed control practice may result in slight stand reduction. Follow the most severe grazing restrictions imposed either by the label for Treflan 80D.C. or by the USDA Acreage Conservation Reserve Program, whichever is longest. Consult the local ASCS office or other state agency to determine the period of USDA grazing restriction.

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

Apply Treflan 80D C. as a preplant incorporated treatment for control of downy brome (cheatgrass), annual ryegrass, annual bluegrass, pacific meadow foxtail (blackgrass), henbit and fiddleneck (tarweed). The growth, development and yield of winter wheat will not be adversely affected, provided the seed is placed below the zone of soil treated with Treflan 80D C. Treflan 80D C. may be applied for up to 3 weeks before planting.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	15
Medium	15
Fine	20

Incorporation Directions: Incorporate Treflan 80D C. 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 80D C. 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 80D C.

Precautions:

- Carefully read and follow "Special Precautions for Use of Treflan 80D C. in Small Grains" before application of Treflan 80D C.
- Wheat planted in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

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

Apply and incorporate Treflan 80D C. after planting, but before emergence, to control the following weeds susceptible to Treflan 80D C. in winter wheat: annual ryegrass, annual bluegrass, downy brome (cheatgrass), pacific meadow foxtail (blackgrass), fiddleneck (tarweed) and henbit.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10 - 15
Medium	15

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 80D C. using 2 passes with a flex-line or spike-tooth harrow operated at least 5 mph. The second incorporation pass should be in a different direction than the first. Set equipment to cut 1 to 1 1/2 inches deep and avoid disturbing seed. Application and first incorporation should be done in the same operation if possible. Both incorporations must be done within 24 hours.

Precautions:

- Carefully read and follow "Special Precautions for Use of Treflan 80D C. in Small Grains" before application of Treflan 80D C.
- Wheat seed in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

- If less than 20 inches of rainfall plus irrigation was received between planting and harvest, refer to rotation crop restrictions before planting sorghum or oats.

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

Treflan 80D C. may be applied and shallowly incorporated into fallow soil up to 4 months before planting wheat to control cheatgrass and certain annual grasses and broadleaf weeds. Apply Treflan 80D C. any time from May to September prior to fall planting of winter wheat. Wheat growth, development and yield will not be adversely affected so long as the seed is placed below the zone of soil treated with Treflan 80D C.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	15
Medium	15
Fine	20

Incorporation Directions: Incorporate Treflan 80D C. 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 80D C. 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 80D C.

Precautions:

- Carefully read and follow "Special Precautions for Use of Treflan 80D C. in Small Grains" before application of Treflan 80D C.
- 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 80D C. after planting, but before emergence, to control foxtail (pigeongrass) in spring wheat, durum and barley. Treflan 80D C. may be tank mixed with Far-Go to control wild oats. Refer to the label for Far-Go for application rates, additional use directions, precautions and limitations before use.

Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	10
Fine	15

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

Incorporation Directions: Incorporate Treflan 80D C. using 2 passes with a flex-line 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 80D C. in Small Grains" before application of Treflan 80D C.
- Wheat seed in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

SOYBEANS

Treflan 80D.C. - Alone

Apply Treflan 80D.C. as a preplant soil incorporated treatment. Treflan 80D.C. may also be applied in the fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:		
Treflan 80D.C.		
Soil Texture	Spring Application (ounces)	Fall Application† (ounces)
Coarse	10	20
Medium	15	20
Fine	20	25

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 to 25 oz

† 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 80D.C. at broadcast rates recommended for normal preplant incorporated treatment.

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

Special Use Programs

Fall Panicum Control

Apply Treflan 80D.C. as a preplant incorporated treatment at a broadcast rate of 20 oz/acre on coarse and medium soils.

Pigweed and Seedling Johnsongrass Control

Apply Treflan 80D.C. as a preplant incorporated treatment.

Broadcast Application Rates/Acre: In Alabama, Arkansas, Florida, Georgia, Kansas, Louisiana, Mississippi, Missouri, Nebraska, North Carolina, Oklahoma, South Carolina, Tennessee, and southern Virginia, apply Treflan 80D.C. at the following broadcast rates: (exception: Louisiana, 30 oz/acre on fine soils).

Soil Texture	Treflan 80D.C. (ounces)
Coarse	10 - 15
Medium	15 - 20
Fine	20 - 25

Additional Weed and Grass Control (Gulf Coast Counties of Texas)
Apply Treflan 80D.C. as a preplant incorporated treatment up to 2 weeks before planting.

Broadcast Application Rates/Acre: For soybeans grown in Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller and Wharton counties of the Texas Gulf Coast, apply Treflan 80D.C. at the following broadcast rates:

Soil Texture	Treflan 80D.C. (ounces)
Coarse	15
Medium	20
Fine	30

Itchgrass (Raouigrass) Suppression

Apply Treflan 80D.C. as a preplant incorporated treatment or at layby.

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

Broadcast Application Rates/Acre:		
Treflan 80D.C.		
Soil Texture	Preplant Incorporated (ounces)	Layby Application (ounces)
Medium	30	10
Fine	30	20

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 80D.C. and reduce weed control activity. Under these conditions, higher rates of Treflan 80D.C. are necessary for weed control. Increased rates, however, can cause crop injury if charcoal or organic matter is not present to bind some of the Treflan 80D.C. In the burn row a high level of charcoal is usually present. Consequently, poor weed control may result, even if an increased rate of Treflan 80D.C. is used. Follow recommended application and incorporation procedures for Treflan 80D.C.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coars	15 - 25
Medium	25
Fine	30

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 80D.C. in the spring before planting. Follow recommended soil preparation and incorporation procedures for Treflan 80D.C.

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SOYBEANS (CONT.)

Broadcast Application Rates/Acre:		
Soil Texture	Treflan 80D.C.	
	Application Year 1	Application Year 2
	(ounces)	(ounces)
Coarse	20	10
Medium	30	15
Fine	40	20
Coarse Soils with 2-5% organic matter	30	15
Soils with 5-10% organic matter	40	20-25

In Arkansas, Louisiana and Mississippi, if a combination of high soil organic matter (5-10%) and charcoal are present, apply Treflan 80D.C. at the following broadcast rates:

Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	15 - 25
Medium	25
Fine	30

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 80D.C. at the normal rate indicated for soil texture and charcoal level, plant only those crops for which Treflan 80D.C. 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 80D.C. requires double rate application for two consecutive years. Commercially acceptable control cannot be obtained with only one year of double rate use of Treflan 80D.C. Carefully follow the special use directions which follow.

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

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	20
Medium	30
Fine	40

- Coarse soils with 2-5% organic matter - 30 oz
- Soils with 5-10% organic matter - 40 oz

Spring Application: Apply Treflan 80D.C. any time before planting in the spring for two consecutive years.

Fall Application: Apply Treflan 80D.C. after October 15 for two consecutive years.

Split Application: Apply Treflan 80D.C. at the broadcast rates indicated in the following table both spring and fall for 2 consecutive years.

Soil Texture	Treflan 80D.C. Spring + Fall
	(ounces)
Coarse	10 + 10
Medium	15 + 15
Fine	20 + 20
Coarse Soils with 2-5% organic matter	15 + 15
Soils with 5-10% organic matter	20 + 20

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 80D.C. can be applied as a preplant treatment or crop injury may result.

Rhizome Johnsongrass Control with Treflan 80D.C. plus Sencor or Treflan 80D.C. plus Lexone Tank Mix

Rhizome johnsongrass control with Treflan 80D.C. plus Sencor or Lexone requires application for two consecutive years. Apply Treflan 80D.C. plus Sencor or Lexone as a preplant incorporated treatment up to two weeks before planting. This tank mix controls weeds susceptible to Treflan 80D.C. 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 80D.C. 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 80D.C. Wild cane (shattercane) can germinate throughout the growing season and from greater soil depth than most other weed seeds. Commercially acceptable control of wild cane can be obtained by using increased rates of Treflan 80D.C.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	20
Fine	25

Incorporation: Deep incorporation with a tandem disc is essential for good wild cane control. Incorporate Treflan 80D.C. thoroughly with a disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary with the second in a different direction than the first.

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

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SOYBEANS (CONT.)

Tank Mix, Overlay and Postemergence Recommendations

Treflan 80D.C. in Tank Mix

Treflan 80D C 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 80D.C. plus Command (Reduced Rate) and Treflan 80D.C. plus Command and Lexone or Treflan 80D.C. plus Command and Sencor Tank Mixes (Not For Use in California): Treflan 80D.C. 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 80D C.

Treflan 80D.C. plus Command: Use the Treflan 80D C plus Command tank mix to control velvetleaf and weeds susceptible to Treflan 80D C.

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 80D.C.	Command 4 E.C.
	(ounces)	(pints)
Coarse	10	0.75
Medium	15	1.12
Fine	20	1.5

Treflan 80D.C. plus Command and Lexone or Treflan 80D.C. plus Command and Sencor: Use the Treflan 80D.C. plus Command and Lexone or Sencor tank mix to control weeds susceptible to Treflan 80D C plus additional weeds listed on the labels for Command and Lexone or Sencor.

Treflan 80D C 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 80 D.C.	Command 4 E.C.	Lexone 4L or Sencor 4	Lexone or Sencor DF
	(ounces)	(pints)	(pints)	(pounds)
Coarse	10	0.5	0.33-0.5†	0.25-0.33†
Medium	15	0.75	0.5-0.75	0.33-0.5
Fine	20	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 80D C plus Lexone or Treflan 80D C plus Sencor tank mix.

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

Apply Treflan 80D C as a preplant soil incorporated treatment. Additional weeds tolerant to Treflan 80D C 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 80D C is specifically prohibited by the manufacturer. Consult the manufacturer's labels for application rates, additional weeds controlled, additional use directions and precautions before use.

† The use of Pursuit is limited to certain states. Use Pursuit as an overlay treatment following Treflan 80D C 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 80D C 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 80D C as a preplant soil incorporated treatment. Additional weeds tolerant to Treflan 80D C 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 80D C is prohibited by the manufacturer. Consult the manufacturer's labels for application rates, additional weeds controlled, additional use directions, precautions and limitations before use.

† Use of Pursuit is limited to certain states. Use Pursuit as a postemergence treatment following Treflan 80D C 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 80D C in the "Northern Use Area" as defined by the label for Scepter.

SUGAR BEETS

Treflan 80D.C. - Alone

Apply Treflan 80D C. as an over-the-top spray and incorporate. Apply from the time the first true leaves have formed until plants are 6 inches tall.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	12.5 - 15
Fine	12.5 - 15

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 80D.C. to reduce the possibility of girdling.

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

A tine-tooth harrow (Flexline or Melroe) can be used to incorporate Treflan 80D C. in sugar beets. Incorporation with tine-tooth harrow requires 2 passes in opposite directions over the same set of rows. Set the harrow to cut 1 to 2 inches deep and operate at 3 to 6 mph. Set incorporation equipment carefully to avoid damage to sugar beet taproot. Use application procedures and broadcast application rates recommended in preceding section.

Treflan 80D.C. plus Eptam Tank Mix

Treflan 80D C. may be tank mixed with Eptam and applied as an over the top spray followed by incorporation to control additional weeds. Use application rates recommended for sugar beets "Treflan 80D.C. - Alone", above. Refer to the label for Eptam for weeds controlled, application rates, additional use directions, precautions and limitations before use.

SUGARCANE

Treflan 80D.C. - Alone

Apply and incorporate Treflan 80D.C. twice a year. Make the first application of Treflan 80D.C. in the fall on firmly packed beds immediately after the seed pieces are planted. Make the second application of Treflan 80D.C. in the spring before or shortly after the cane emerges. Loosen rain-packed beds 2-3 inches deep before the spring application. Take care that incorporation equipment does not damage the seed pieces or emerging shoots.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
All Textures	20-40†

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

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

Surface apply Treflan 80D C. after planting (for plant cane) or after harvesting (for ratoon cane). For best results in plant cane, the soil surface should be smooth and finely tilled. Apply Treflan 80D C. 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 80D C. just

before anticipated rainfall in non-irrigated and furrow-irrigated sugarcane. Irrigate as soon as possible after applying in drip-irrigated or sprinkle-irrigated sugarcane to activate Treflan 80D.C.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
All Textures	60 - 80

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

Apply and incorporate Treflan 80D.C. in spring from shortly before or after cane emergence until layby. Apply after beds have been shaved or false shaved. Loosen rain-packed beds 2 to 3 inches deep before application. Avoid incorporation equipment damage to seed pieces or emerging shoots. Incorporate with a rolling cultivator or bed chopper for all soil textures. Set rolling cultivator to cut 2 to 4 inches deep and operate at 6 to 8 mph. Set bed chopper to cut 3 to 4 inches deep and operate 4 to 6 mph. Two incorporation passes are necessary.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
All Textures	20-40†

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

Ichgrass (Reoulgrass) Control (For Use in Louisiana)

Apply and incorporate Treflan 80D.C. on plant or ratoon cane. Follow use directions in preceding section for layby application.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
All Textures	20-40

SUNFLOWER

Treflan 80D.C. - Alone

Apply and incorporate Treflan 80D.C. in the spring before planting or in the fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C.
	(ounces)
Coarse	10
Medium	12.5 - 15
Fine	15 - 20

- Coarse and medium soils with 2-5% organic matter - 15 to 20 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 oz
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Treflan 80D.C. plus Eptam Tank Mix

Treflan 80D C. may be tank mixed with Eptam and applied as a preplant incorporated treatment to control additional weeds in sunflowers in Minnesota, North Dakota and South Dakota. Refer to the label for Eptam for application rates, additional use directions, precautions and limitations before use.

TOMATO

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

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coarse	10
Medium	12.5 - 15
Fine	15 - 20

- Coarse and medium soils with 2-5% organic matter - 15 oz
- Fine soils with 2-5% organic matter - 20 oz
- Soils with 5-10% organic matter - 20 oz
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

TREE AND VINE CROPS - CITRUS, FRUIT AND NUT CROPS AND VINEYARDS**Application to New Plantings of Citrus, Fruit and Nut Crops**

For new plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees, apply and incorporate Treflan 80D C. before planting.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coarse	10
Medium	12.5 - 15
Fine	15 - 20

- All soils with 2-5% organic matter - 15-20 oz
- All soils with 5-10% organic matter - 20 oz
- 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 80D C. before planting.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
Coarse	10 - 15
Medium	15 - 30
Fine	30 - 40

- Soils with 2-10% organic matter - 40 oz
- Use lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

Note: Do not use more than 20 oz/acre on heat-treated grape rootings.

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

Treflan 80D.C. may be applied in established non-bearing and bearing vineyards and plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees. In established plantings, apply Treflan 80D.C. as a directed spray to the soil and use incorporation methods not injurious to the crop. Do not apply to vineyards within 60 days of harvest.

Broadcast Application Rates/Acre:	
Soil Texture	Treflan 80D.C. (ounces)
All Textures	20-40

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

Rhizome Johnsongrass Control - Special Two-year Use Program

Treflan 80D.C. may be applied for two consecutive years in a special use program to control rhizome johnsongrass in established vineyards and plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerine and walnut trees. Do not apply to vineyards within 60 days of harvest.

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

Broadcast Application Rates/Acre:

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

Soil Texture	Treflan 80D.C. (ounces)
All Textures	40

Incorporation: Incorporate Treflan 80D C. thoroughly with a disc set to cut 4 to 6 inches deep and operate 4 to 6 mph. Two incorporation passes are necessary, with a second pass in a different direction from the first.

Cultivation: Some johnsongrass plants will escape. Timely cultivations are necessary to obtain commercially acceptable control. Commercially acceptable control cannot be obtained with only a single year use of Treflan 80D C.

Precautions: Do not use 40 oz 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 80D C. has been registered as a preplant incorporated treatment.

Bindweed Control in California

Treflan 80D C. can be applied using a specially equipped spray blade for the control of field bindweed in vineyards and in plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerine and walnut trees.

Soil Preparation: Destroy existing weeds with soil tillage before applying Treflan 80D C. Thorough tillage is necessary to prevent trash from interfering with operation of the spray blade.

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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 80D C in 40 to 80 gallons of water per acre. Operate blade at a depth of 4 to 6 inches.

Soil Texture	Treflan 80D.C. (ounces)
All Textures	40

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 80D.C. Prevent or eliminate cracks by shallow disking or other tillage. Avoid deep tillage which disturbs the subsurface layer. Cultivation or tillage also aids the control of germinating seeds.

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