



Treflan* E.C. Herbicide

GROUP	3	HERBICIDE
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A selective liquid herbicide for preplant soil incorporated weed control in many field crops, vegetables and ornamentals.

AGRICULTURAL

READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

GUARANTEE: trifluralin 480 g/L

REGISTRATION NO. 23933 PEST CONTROL PRODUCTS ACT

CAUTION: FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. READ ALL DIRECTIONS CAREFULLY BEFORE APPLYING.

NET CONTENTS: 9.45 L, 115 L, 700 L

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TABLE OF CONTENTS	PAGE
Precautions	
First Aid	
Toxicological Information	
Agricultural Chemical	
Environmental Hazards.....	
Storage.....	
Disposal.....	
Instructions.....	
Warnings	
Application	
Crop Year	
Rotational Crop.....	
Weed Resistance.....	
Directions for Use.....	
Land Preparation	
Application	
Incorporation.....	
TREFLAN E.C. FOR USE IN PRAIRIE PROVINCES (PAGES * THROUGH * INCLUSIVE)	
General Information for Oilseed and Special Crops - Prairie Provinces.....	
Crops Registered.....	
Weeds Controlled	
Spring Application.....	
Summer Application	
Fall Application	
Spring Tillage for Seedbed Preparation	
Special Instructions for Flax and Lentils	
Use of Treflan E.C. for Oilseed and Special Crops	
Application of Treflan E.C. with Fluid Fertilizers	
Treflan E.C. Impregnated/Coated onto Dry Granular Fertilizer	
Use of Treflan E.C. for Triazine Tolerant Canola (T.T. Canola)	
Treflan E.C. Plus a Registered Postemergent Triazine Herbicide for Triazine Tolerant Canola.....	
Use of Treflan E.C. for Soybeans	
Treflan E.C. Plus Sencor (Tank-Mix): Preplant Incorporated	
Weeds Controlled by Treflan E.C. Plus Sencor	
Application	
Mixing Sequence	
Spray Application.....	
Sprayer Clean-up	
Incorporation.....	
Spring Tillage and Seedbed Preparation	
Spring Application.....	
Fall Application	
Use of Treflan E.C. on Wheat and Barley: Postplant Incorporated (Harrowed in After Seeding)	
Crops Registered.....	
Weeds Controlled	
Mode of Action.....	
Land Preparation	
Application and Incorporation	

Treflan E.C. Plus Avadex BW (Tank-Mix): Postplant Incorporated (Harrowed in After Seeding)
 Crops Registered.....
 Weeds Controlled
 Land Preparation
 Application and Incorporation
Use of Treflan E.C. for Strawberries, Saskatoon Berries and Established Asparagus
 Strawberries.....
 Saskatoon Berries
 Asparagus (Established Three Years)
Use of Treflan E.C. for Shelterbelts
Minor Use of Treflan E.C. with Sencor 75 DF (Tank-Mix) in Shelterbelts
Use of Treflan E.C. for Vegetables
Use of Treflan E.C. for Vegetable Crops (Spring Application Only)
Use of Treflan E.C. for Forage Legumes (Seed Production/Forage)
**TREFLAN E.C. FOR USE IN EASTERN CANADA AND BRITISH COLUMBIA (PAGES * THROUGH *
INCLUSIVE)**
General Information
 Crops Registered.....
 Weeds Controlled
 Recommended Rates Per Hectare of Treflan E.C. - Eastern Canada and British Columbia
Treflan E.C. Application with Fluid Fertilizers
 Compatibility Test
Treflan E.C. Impregnated/Coated onto Dry Granular Fertilizer
Treflan E.C. for Use in Soybeans
Treflan E.C. Plus Sencor or Lexone (Tank-Mix)
Treflan E.C. Followed by Lorox L or Afolan F (Split Application).....
Treflan E.C. Followed by Basagran Plus Assist (Split Application)
Treflan E.C. for Use in Dry Common Beans (White or Kidney)
Treflan E.C. Plus Eptam (Tank-Mix)
Treflan E.C. Followed by Patoran FL or Afesin 2 EC (Split Application)
Treflan E.C. Followed by Basagran Plus Assist.....
Minor Use of Treflan E.C. with Pursuit in white beans.....
Treflan E.C. for Standard Spring and Triazine Tolerant Canola
 Standard Canola.....
 Triazine Tolerant Canola
Treflan E.C. Plus a Registered Postemergent Triazine Herbicide for Triazine Tolerant Canola.....
Treflan E.C. for Use in Tomatoes
Treflan E.C. Plus Sencor in Transplanted Tomatoes (Grown for Processing Only).....
Treflan E.C. Use for Asparagus - Established Three years.....
Treflan E.C. for Use on Fall Cereals Grown in Rotation with Flue-Cured Tobacco to control Loose Silky
Bentgrass
 Postplant Incorporated (Harrowed in After Seeding).....
 Crops Registered
 Application and Incorporation
Treflan E.C. Use for First Year Apple, Apricot, Cherry, Peach, Plum and Pear Trees.....
Minor Use for Treflan E.C. Plus Dual Plus Sencor (Tank-Mix) Preplant Incorporated for Use in
Transplanted Tomatoes
Resistance Management
Notice to User
Notice to Buyer.....

PRECAUTIONS

HARMFUL IF SWALLOWED OR ABSORBED THROUGH THE SKIN

KEEP OUT OF REACH OF CHILDREN

Avoid contact with skin, eyes or clothing. Do not store near heat or flame. Avoid contamination of foodstuffs, feeds and fish ponds.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., refer to www.cropro.org/.

FIRST AID

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed: Do not induce vomiting. Call a physician or contact a poison control centre. If available, administer 30 to 40 mL (6 to 8 heaping teaspoonfuls) activated charcoal with a large quantity of water. Do not induce vomiting or give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.

If in eyes: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel or contact a poison control centre.

If inhaled: Remove individual to fresh air. Get medical attention or contact a poison control centre if breathing difficulty occurs. If not breathing, give artificial respiration, preferably cardiopulmonary resuscitation assistance, and get medical attention immediately.

If on skin: Immediately wash with plenty of soap and water. Get medical attention or contact a poison control centre if irritation develops.

TOXICOLOGICAL INFORMATION

The decision of whether to induce vomiting or not should be made by an attending physician. If lavage is performed, endotracheal and/or oesophageal control is suggested. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

AGRICULTURAL CHEMICAL

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

ENVIRONMENTAL HAZARDS

Direct contamination of any body of water with this product may kill fish. Do not contaminate any body of water by direct application, cleaning of equipment or disposal of wastes.

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

STORAGE

DO NOT FREEZE. Store Treflan E.C. in heated storage. Active ingredient crystallization may occur at temperatures below 5°C. If stored below 5°C, check for crystals in the bottom of each container. If crystals are present, place the container in a warm area (at least 15°C) for several hours. For smaller containers, agitate contents by inverting several times and return it to the upright position. For larger containers, circulate contents. After several hours, if any crystals remain, agitate or circulate container contents again.

Ensure any crystals are dissolved before adding to spray tank.

DISPOSAL

Recyclable Containers:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

Returnable Containers:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

INSTRUCTIONS

FAILURE TO FOLLOW LABEL INSTRUCTION MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. USUAL OR STANDARD SEEDING PRACTICES MAY NOT SUFFICE. READ ALL DIRECTIONS CAREFULLY BEFORE APPLYING.

WARNINGS

Application

- Do not apply Treflan E.C. to peat or muck soil, or soils which contain more than 15% organic matter.
- Do not apply to fields spread with manure within the last 12 months. After this period, ensure the manure has been thoroughly disintegrated and mixed into the soil to a depth of 10 to 15 cm.
- If the swath or stubble is removed by burning, cultivate once to remove the charcoal layer from the soil surface prior to Treflan E.C. application.
- Application to soils subject to prolonged periods of flooding may result in accelerated herbicide breakdown. Additionally, application to wet soils or soils in poor working condition could result in reduced weed control. See Land Preparation section of this label for further precautions.
- Do not apply to soils with less than 2% organic matter. Application to eroded knolls or grey-wooded soils with highly variable texture or organic matter may result in reduced crop stand, delayed development or reduced yields in either the treated crop or rotational crop.
- Apply uniformly at the recommended rates. Over-application caused by overlapping, improper calibration or uneven application may reduce crop stands in the treated crop or rotational crop.
- DO NOT APPLY BY AIR.
- To avoid potential injury to future wheat rotational crops, growers should avoid applying trifluralin and/or ethalfluralin on the same land at an oilseed/special crop/barley rate for two consecutive crops.

Crop Year

- Applied and incorporated according to directions, Treflan E.C. will not harm the treated or rotational crop. However, seedling disease, deep planting, excessive moisture, high salt concentration, soil compaction or drought may weaken crop seedlings and increase the risk of injury, which may result in delayed crop development or reduced yields.
- To reduce the possibility of injury to the treated crop, use good quality certified seed. Seed shallow into a warm, moist firm seedbed using recommended agronomic practices which will promote rapid and even crop germination and emergence.
-

- Each crop has a specific seeding depth requirement, and seeding deeper than recommended can increase the potential risk of damage to the seedling. Refer to industry or government extension published documents which outline recommended seeding practices/depths for each crop.
- CAUTION: Do not graze the treated immature crops or cut for hay; there are not sufficient data available to support such use.

Rotational Crop

- Applied and incorporated according to label directions, Treflan E.C. will not harm rotational crops. However, seedling disease, cold weather, deep planting, excessive moisture, high salt concentrations, soil compaction or drought may weaken seedlings and increase the risk of injury, which may result in delayed crop development or reduced yields.
- As a precaution, oats, sugar beets and small-seeded grasses such as timothy, canaryseed grass and creeping red fescue should not be grown in rotation following a crop treated with Treflan E.C.
- The persistence of Treflan E.C. is influenced by soil moisture and the majority of breakdown occurs during the growing season. If drought or extended dry periods were present in the previous year, higher levels of Treflan E.C. may be present in the soil. To reduce the possibility of injury to rotational crops, seed shallow into a warm moist seedbed using recommended agronomic practices and seeding depths. As an additional safety precaution seeding rate may be increased slightly (10%).
- **Western Canada Only** - Do not seed wheat as a rotational crop on land if trifluralin and/or ethalfluralin has been used at an oilseed/special crop/barley rate for two consecutive crops.
- **Western Canada Only** - Do not direct seed (zero till) a rotational crop into standing stubble on land that has been treated with trifluralin or ethalfluralin for the previous crop. A cultivation prior to seeding of the rotational crop is strongly recommended to help aerate the soil and promote seedbed conditions which will enhance seed germination.
- When seeding a rotational crop, use good quality certified seed. Seed shallow into a warm, moist firm seedbed using recommended agronomic practices which will promote rapid and even crop germination and emergence. **Avoid deep seeding, loose seedbeds and seeding into cold soils.**
- Each crop has a specific seeding depth requirement and seeding deeper than recommended can increase the potential risk of damage to the seedling. Refer to industry or government extension published documents which outline recommended seeding practices/depths for each crop.

Weed Resistance

Populations of green foxtail tolerant to trifluralin have developed in a number of fields in Western Canada with a long history of repeated trifluralin use. Trifluralin or ethalfluralin containing products (i.e., Advance* 10G, Treflan E.C., Heritage**, Triflurex¹, Rival², Fortress³ and Edge*) will not control trifluralin tolerant green foxtail. To delay selection or reduce the spread of trifluralin tolerant green foxtail, avoid the use of these products repeatedly in the same field or use a separate herbicide application for control of trifluralin tolerant green foxtail. As a preventative measure, Dow AgroSciences strongly recommends rotating the use of herbicides that have different modes of action. Consult provincial extension personnel for more information.

DIRECTIONS FOR USE

Treflan E.C. is a preemergent herbicide which is mixed (incorporated) into the soil to provide long-lasting control of many annual grasses and broadleaved weeds. Treflan E.C. controls susceptible weeds by killing seedlings as they germinate. It does not control established weeds.

Land Preparation

Cultivate to destroy existing weeds and ensure that large clods are broken before Treflan E.C. application. When applying to stubble fields, chop and thoroughly mix crop residues into soil to a depth of 10 cm. Disc type implements provide the best results. Swath windrows should be evenly spread before

cultivation to avoid strips of concentrated trash cover. Treflan E.C. should not be sprayed on a soil surface with more than 25% trash cover. To avoid concentrating wild oat seeds below the treated layer, do not plow (moldboard) land prior to Treflan E.C. application. If a swath has been removed by burning, cultivate once to remove the charcoal layer prior to application of Treflan E.C.

Application

- Add the recommended amount of Treflan E.C. to clean water in the spray tank during the filling operation and agitate thoroughly. Apply with at least 100 L of water per hectare (broadcast basis) using any properly calibrated low-pressure herbicide sprayer that will apply the spray uniformly. Check the sprayer daily to ensure proper calibration and uniform application over the field. Apply Treflan E.C. to soil surface and incorporate in the same operation if possible. Ensure that large clods are broken.
- Do not delay incorporation more than 24 hours after application. When applied as directed, Treflan E.C. will not harm the treated crop or crops that follow in rotation; however, an over-application caused by overlapping, letting the sprayer run in one spot, improper calibration, non-uniform application, etc., may reduce stands of treated crops or crops that follow in rotation.

Incorporation

- To incorporate, work Treflan E.C. into the soil in two different directions. Use a tandem disc, discer or field (vibrashank type) cultivator set to work 8 to 10 cm deep for the first incorporation. A field cultivator (vibrashank type) is defined as an implement with 3 or 4 rows of sweeps spaced at intervals of 20 cm or less and staggered so that no soil is left unturned. The second incorporation should be a discing or cultivation in a cross direction at the same depth any time prior to planting.
- Operate disc implements 7 to 10 km/hr and cultivators at 10 to 13 km/hr. Failure to operate implements at recommended speeds may result in erratic weed control due to poor distribution of Treflan E.C. in the soil. **(Deep tillage cultivator not recommended).**
- Treflan E.C. should not be incorporated with a field cultivator when the soil is crusted, lumpy or too wet for good mixing action.
- Disc type implements are preferred on stubble to ensure a 10 cm depth of operation.
- Incorporation with implements set to cut less than 8 cm deep or more than 10 cm deep may result in erratic weed control, crop damage or rotational crop damage.
- Rod weeders, harrows, deep tillage cultivators, chisel plows or hoe drills will not properly incorporate Treflan E.C.

TREFLAN E.C. FOR USE IN PRAIRIE PROVINCES

GENERAL INFORMATION FOR OILSEED AND SPECIAL CROPS - PRAIRIE PROVINCES

Crops Registered

canola	crambe
triazine tolerant canola	sainfoin
mustard	sweet clover (spring only)
flax (summer and fall application only)	vegetables (see special instructions)
dry common beans (white or kidney)	strawberries (spring application only)
black beans	asparagus - established 3 years
soybeans	transplanted shelterbelts
faba beans (horsebeans)	Saskatoon berries
peas (field and canning)	forage legumes
lentils (fall only)	•seedling alsike clover
sunflowers	•red clover
safflower	•cicer milkvetch
alfalfa establishment (flax and canola cover crops only)	•bird's-foot trefoil

Weeds Controlled

Annual Grasses

wild oats
wild millet (green* and yellow foxtail)
barnyard grass
crab grass
brome grass
cheat
stink grass
goose grass
annual blue grass
Persian dandel

Annual Broadleaves

wild buckwheat
cow cockle
pigweed
lamb's-quarters
chickweed
purslane
knotweed
carpetweed

*Treflan E.C. will not control trifluralin tolerant green foxtail. See specific recommendations in **WARNINGS** section of the label under the subheading **Weed Resistance**.

NOTE: When used as directed, Treflan E.C. will provide commercially acceptable control of the above weeds. Some wild oats and wild buckwheat may escape the herbicide action of Treflan E.C. but will be retarded in growth and will provide little competition to the crop.

Spring Application

Treflan E.C. can be applied immediately prior to planting or up to three weeks before planting.

Summer Application

Treflan E.C. can be applied to summerfallow between June 1 and September 1 for weed control in canola or flax the following year. Apply the summer rate and incorporate as above. Not recommended for sand and sandy loam soils.

Treflan E.C. must be incorporated at least twice with the implement operated in two different directions. The initial incorporation must be done within 24 hours after application. The second incorporation (and subsequent incorporations) may be done whenever necessary to destroy resistant weed growth during the remainder of the fallow season. Shallow tillage (5 to 8 cm) is necessary in the spring prior to planting (refer to Spring Tillage for Seedbed Preparation).

Fall Application

Treflan E.C. can be applied in the fall between September 1 and prior to soil freeze-up for weed control the following year. Apply fall rates and incorporate as above. The initial incorporation must be done within 24 hours after application. It is preferred to do both incorporations in the fall followed by tillage (5 to 8 cm) in the spring prior to planting. However, one incorporation may be done in the fall and the second in the spring at the time of seedbed preparation, provided both operations are done at the recommended depth (refer to Spring Tillage for Seedbed Preparation).

Spring Tillage for Seedbed Preparation

Spring tillage following summer or fall application of Treflan E.C. should be done prior to seeding when the soil is warm enough to promote germination. Use a disc or field cultivator (vibrashank) set to cut at 5 to 8 cm deep. For optimum weed control in soils with heavy wild oat populations prework early in the spring with a shallow cultivation to promote weed seed germination, followed by a 5 to 8 cm deep cultivation prior to seeding to destroy existing green growth. Avoid transplanting weed seedlings; seed into a weed-free seedbed using accepted cultural practices. Avoid excessive compaction of the soil layer treated with Treflan E.C. Any operation that results in a more shallow or compacted treated layer may allow weeds to emerge. This compaction may result from tractor wheel tracks, implement wheels, drill press wheels or other field operations done after incorporation. Soils are more susceptible to compaction when they are moist.

SPECIAL INSTRUCTIONS FOR FLAX AND LENTILS

1. Both incorporations of Treflan E.C. must be done in the season of application prior to seeding flax in the spring.
2. The seedbed should be shallowly tilled (5 to 8 cm) and packed just prior to seeding in the spring to ensure a firm seedbed and accurate depth of planting.
3. Seeding should be done with a press drill or hoe drill. Seed into a moist seedbed no more than 4 cm deep.
4. Do not seed flax early in May when soil conditions are cold. Seeding should generally not be prior to May 15.
5. Refer to Warning statement regarding stresses that can lead to crop injury or yield reduction.

USE OF TREFLAN E.C. FOR OILSEED AND SPECIAL CROPS

Recommended Rates of Treflan E.C.

Crop	Soil Zones and Soil Organic Matter	Soil Texture		
		Light	Medium	to Heavy
		sand sandy loam	loam silt loam silt sandy clay loam	silty clay loam clay loam silty clay clay
Spring canola, T.T. canola, mustard, dry common beans (white and kidney), soybeans, faba beans, black beans, peas, sunflower, safflower, crambe, alfalfa est., sainfoin, sweet clover	brown, dark brown or black 2-6% O.M.	1.7 L/ha	2.3 L/ha	
	black or deep black 6-15% O.M.	2.3 L/ha	2.3-3.0 L/ha (use 3.0 L/ha for heavy wild oat infestations)	
Summer canola, T.T. canola, flax, safflower	brown, dark brown, black or deep black	Not recommended	3.4 L/ha	
Fall canola, T.T. canola, mustard, dry common beans (white and kidney), flax, soybeans, faba beans, black beans, peas, lentils, sunflower, safflower, alfalfa est.	brown, dark brown or black 2-6% O.M.	2.3 L/ha	3.0 L/ha	
	black or deep black 6-15% O.M.	3.0 L/ha	3.0-3.4 L/ha (use 3.4 L/ha for heavy wild oat infestations)	

NOTE: Do not delay first incorporation more than 24 hours after application.

APPLICATION OF TREFLAN E.C. WITH FLUID FERTILIZERS

Treflan E.C. may be mixed with liquid nitrogen fertilizer (e.g., 28-0-0) for application either preplant soil incorporated or postplant incorporated. Treflan E.C. may also be mixed with Avadex BW⁴ and liquid fertilizer for postplant incorporated application in wheat or barley. All label recommendations of Treflan E.C. regarding rates per hectare, approved crops, incorporation, special instructions, cautions and special precautions must be followed.

Treflan E.C. should be poured directly into the liquid fertilizer, mixed thoroughly and applied as soon as possible. Constant agitation is needed until application is complete. Apply the Treflan E.C./fertilizer mixture with properly calibrated equipment suitable for liquid fertilizer application. Ensure that the material is applied uniformly to the soil surface. Follow normal incorporation procedures for Treflan E.C.

Small quantities of liquid fertilizer and herbicide should be tested for compatibility prior to tank-mixing. Use the compatibility test as follows:

1. Put 500 mL of liquid fertilizer into a 1 L jar.
2. Add 10 mL of Treflan E.C.
3. Close jar and shake well.
4. The herbicide and fertilizer are compatible if the herbicide remains in suspension after five minutes. If the herbicide settles out quickly but goes into suspension easily upon shaking, the mixture may be used provided constant agitation is utilized.
5. A compatibility test is also recommended when there is a change in fertilizer supplies, fertilizer formulations and climatic temperatures.

TREFLAN E.C. IMPREGNATED/COATED ONTO DRY GRANULAR FERTILIZER

Dry bulk fertilizer may be impregnated or coated with Treflan E.C. Application should be made as soon as possible after blending. All Treflan E.C. label recommendations regarding rates per hectare, approved crops, incorporation, special instructions, cautions and special precautions must be followed.

To obtain commercially acceptable weed control with Treflan E.C. impregnated on fertilizer, the following minimum rates of fertilizer must be used:

Spring Application	330 kg/ha
Fall Application	250 kg/ha

Mix and blend dry fertilizer and Treflan E.C. in any commonly used dry fertilizer blender. Ensure that uniform spray coverage is obtained. Sufficient blending/mixing time should be allowed to obtain uniform coverage of dry fertilizer with Treflan E.C.

Spread the fertilizer/Treflan E.C. mixture with a properly calibrated granular fertilizer applicator. Be certain the blended material is applied uniformly to the soil surface. The first incorporation should be completed as soon as possible (within 24 hours) after fertilizer application. It is recommended to **delay the second incorporation for a period of at least six days** to ensure optimum dissipation of Treflan E.C. within the soil.

CAUTION: Any commonly used dry fertilizer can be used for the impregnation of Treflan E.C. **except** ammonium nitrate. Use with nitrate fertilizers may cause explosion and fire.

NOTE: Compliance with the Fertilizer Act and Regulations (Agriculture and Agri-Food Canada) is the responsibility of the individual/company selling the Treflan E.C./fertilizer mixture.

USE OF TREFLAN E.C. FOR TRIAZINE TOLERANT CANOLA (T.T. CANOLA)

NOTE: This treatment is for use only on triazine tolerant canola. Non-triazine tolerant canola will be killed by this combination.

TREFLAN E.C. PLUS A REGISTERED POSTEMERGENT TRIAZINE HERBICIDE FOR TRIAZINE TOLERANT CANOLA

NOTE: This treatment for use only on triazine tolerant canola. Non-triazine tolerant canola will be killed by this combination.

Treflan E.C. may be applied in the summer, fall and spring for triazine tolerant canola. The postemergence triazine herbicide Bladex L⁵ is registered for use after crop emergence to control several additional broadleaved weeds. Refer to the Bladex L label for specific recommendations and follow the warnings and precautions as stated.

USE OF TREFLAN E.C. FOR SOYBEANS

For Treflan E.C. on soybeans refer to Use of Treflan E.C. for Oilseed and Special Crops. A tank-mix combination of Treflan E.C. plus Sencor⁶ may be used for weed control in soybeans.

NOTE: Do not plant soybean varieties Ace, Apache, Baron, DAC Eramosa, Maple Amber, Maple Ridge, Nottawa, OAC Eramosa or Portage on areas treated with Sencor as unacceptable injury may result.

TREFLAN E.C. PLUS SENCOR (TANK-MIX): PREPLANT INCORPORATED

Treflan E.C. may be applied in a tank-mix combination with Sencor as a preplant incorporated broadcast application to soybeans for the control of many annual grasses and broadleaved weeds.

Weeds Controlled by Treflan E.C. Plus Sencor

In addition to those weeds controlled by Treflan E.C. alone, the Treflan E.C./Sencor tank-mix will control the following:

wild mustard	shepherd's-purse
stinkweed	hemp-nettle
green smartweed	lady's-thumb
volunteer canola (non-triazine tolerant)	

Application

Select the proper rates of Treflan E.C. and Sencor 500 F/75 DF as shown based on soil type and percent organic matter. Follow all land preparation, mixing, spraying, incorporation directions and precautions on this label.

Mixing Sequence

It is important to follow the correct sequence when mixing Treflan E.C. and Sencor in the spray tank.

The following steps are essential when combining Treflan E.C. with Sencor:

1. Fill the spray tank 1/4 to 1/3 full with clean water.
2. While continuing to fill the spray tank and with the agitation and recirculating system operating, slowly add the full amount of Sencor for that tankload.
3. Fill the spray tank to the desired level with clean water, while maintaining constant agitation of the mixture.
4. After the full amount of Sencor is thoroughly mixed, add the calculated amount of Treflan E.C. to the tank and agitate thoroughly.
5. To avoid any compatibility problems, spray immediately. Continuous agitation is required until the mixture is sprayed out. Do not allow the sprayer to stand without agitation or settling will occur and vigorous mixing with a paddle will be necessary to remix the chemical in the spray tank.

Use the Rinse, Drain and Disposal Procedure section instructions to ensure all contents are removed from containers prior to disposal.

Spray Application

Apply the tank-mix of Treflan E.C. and Sencor to the soil surface and incorporate in the same operation, if possible. Do not delay first incorporation more than 24 hours after application. Apply the tank-mix in at least 100 L of water per hectare (broadcast basis) using any properly calibrated low-pressure herbicide sprayer that will apply the spray uniformly. Application may be made with any properly calibrated commercial tractor-drawn or self-propelled field sprayer equipped with the following:

1. Nozzle tips no finer than 6502, 8002 or TK2 with nozzle screens no finer than 0.3 mm (50 mesh).
2. A 0.3 mm or larger line strainer(s) or screen.
3. A pump of sufficient capacity to provide adequate volume through the by-pass and/or jet agitation system to provide a uniform spray mixture even while the booms are operating.

NOTE: Felt filters, small nozzle tips or smaller screens will become clogged.

Sprayer Clean-up

Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops to be sprayed. Drain any remaining spray solution of Sencor and Treflan E.C. from the spray tank and discard in non-crop areas away from water supplies. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of 250 mL/100 L of water. Recycle this mixture through the

equipment for 5 minutes and spray out. Repeat this procedure twice. Fill the spray tank with clean water, recycle for 5 minutes and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of the spray tank, nozzles or spray rig.

Incorporation

Refer to General Information for Oilseed and Special Crops.

NOTE: Treflan E.C. and Sencor can be applied in the fall prior to soil freeze-up for weed control the following year. Apply fall rates and incorporate as above. The initial incorporation must be done within 24 hours after application. It is preferred to do both incorporations in the fall followed by tillage (5 to 8 cm) in the spring prior to planting. However, one incorporation may be done in the fall and the second in the spring at the time of seedbed preparation, provided both operations are done at the recommended depth (refer to Spring Tillage and Seedbed Preparation).

Spring Tillage and Seedbed Preparation

Spring tillage following fall application of Treflan E.C. and Sencor should be done when the soil is warm enough to promote germination. Use a disc or vibrashank cultivator operated at 5 to 8 cm deep. Avoid transplanting weed seedlings. Seed into a weed-free seedbed using accepted cultural practices.

**Spring Application
Recommended Rates of Product per Hectare**

Treflan E.C.	Soil Texture		
	Light	Medium	or Heavy
Soil Zones and Soil Organic Matter	sand sandy loam	loam silt loam sandy clay loam	silty clay loam silt clay loam silty clay clay
2-6% O.M. 6-15% O.M.	1.7 L/ha 2.3 L/ha	2.3 L/ha 2.3-3.0 L/ha*	
Sencor			
O.M.	75 DF	500F	
2-3%	275 g/ha	425 mL/ha	
3-6%	375 g/ha	500 mL/ha	
6-10%	375-550 g/ha	550-650 mL/ha	
10%+	550+ g/ha	850+ mL/ha	

*Use the 3.0 L/ha rate of Treflan E.C. for heavy wild oat infestation.

**Fall Application
Recommended Rates of Product per Hectare**

Treflan E.C.	Soil Texture		
	Light	Medium	or Heavy
Soil Zones and Soil Organic Matter	sand sandy loam	loam silt loam sandy clay loam	silty clay loam silt clay loam silty clay clay
2-6% O.M. 6-15% O.M.	2.3 L/ha 3.0 L/ha	3.0 L/ha 3.0-3.4 L/ha*	
Sencor			
O.M.	75 DF	500F	
2-3%	375 g/ha	550 mL/ha	
3-6%	475 g/ha	700 mL/ha	
6-10%	475-550 g/ha	700-850 mL/ha	
10%+	550+ g/ha	850+ mL/ha	

*Use the 3.4 L/ha rate of Treflan E.C. for heavy wild oat infestation.

NOTE:

1. On variable soils with light sandy areas, some injury may occur on the sandy areas if the rate used is for the heavier soil type in the field.
2. Do not use on soils with less than 2% organic matter.
3. On soils with 10% organic matter and higher, broadleaved weed control may not be adequate.
4. Uneven application or improper soil incorporation of Treflan E.C. and Sencor may result in erratic weed control or crop injury depending on rate used.

4. Application and the first incorporation should be done in the same operation if possible. Incorporate to a shallow depth with diamond harrows or tyne harrows in two different directions at speeds of 8 to 11 km/hr. Both incorporations must be done within 24 hours of application of Treflan E.C. Uneven incorporation may result in some wild millet escapes in the bottom of furrows left by the last row of the harrows if the depth of the Treflan treated layer in these troughs is not sufficient to prevent emergence of wild millet. To obtain a more uniform layer of treated soil, operate tyne harrows inclined at least 45 degrees backwards and harrow at a speed which minimizes the amount of soil ridging by the harrows.

CAUTION: Wheat or barley may be injured if seeded through a treated layer or into a deeply-incorporated layer of Treflan E.C. Applied according to directions and under normal growing conditions, Treflan E.C. will not adversely affect wheat or barley. Seedling disease, cold weather, improper seeding depth, excessive moisture, high salt concentration or drought may weaken crop seedlings and increase the possibility of damage from Treflan E.C. Under these conditions, delayed crop development or reduced yields may result. This treatment of Treflan E.C. may not provide adequate control of weeds other than wild millet (green foxtail and yellow foxtail).

TREFLAN E.C. PLUS AVADEx BW (TANK-MIX): POSTPLANT INCORPORATED (HARROWED IN AFTER SEEDING)

Crops Registered

wheat
barley

Weeds Controlled

wild millet (green* and yellow foxtail)
wild oats

*Treflan E.C. will not control trifluralin tolerant green foxtail. See specific recommendations in

WARNINGS section of the label under the subheading **Weed Resistance**.

Land Preparation

Seed crop before application. Seed wheat/barley to depth of 5 to 8 cm using conventional seeding implement.

Application and Incorporation

Treflan E.C. Plus Avadex BW (Tank-Mix)

Rate per Hectare

Crop	Product	Soil Texture	
		Light to Medium	Heavy
Barley	Treflan E.C.	1.2 L/ha	1.7 L/ha
	Avadex BW	4.25 L/ha	
Wheat	Treflan E.C.	1.2 L/ha	1.7 L/ha
	Avadex BW	3.5 L/ha	

1. Apply and soil incorporate Treflan E.C. plus Avadex BW in a tank-mixed combination in the spring after planting and prior to emergence of wheat or barley.
2. Soil incorporate the mixture to a shallow depth (above the seed). Shallow incorporation may be accomplished with diamond harrows, tyne harrows or other similar implements operated twice over the treated area.
3. Application should be confined to fields which are trash-free or were fallowed during the previous year.

USE OF TREFLAN E.C. FOR STRAWBERRIES, SASKATOON BERRIES AND ESTABLISHED ASPARAGUS

Strawberries

Apply Treflan E.C. prior to planting transplanted strawberries. Follow recommended soil preparation, application and incorporation procedures for Treflan E.C. Apply only in the spring. Do not exceed the maximum application rate of 2.3 L/ha. Over-application may delay establishment of runner plants.

Saskatoon Berries

Apply Treflan E.C. prior to planting transplanted Saskatoon berries. Follow recommended soil preparation, application and incorporation procedures for Treflan E.C. Apply only in the spring. Do not exceed maximum application rate of 2.3 L/ha.

Asparagus (Established Three Years)

Follow recommended soil preparation, application and incorporation procedures for Treflan E.C. Apply to established asparagus in the early spring after ferns are removed but before spear emergence. Or apply after harvest in the late spring or early summer before ferning begins.

CAUTION: Set implements so asparagus crowns are not injured during soil preparation and incorporation.

USE OF TREFLAN E.C. FOR SHELTERBELTS

Apply Treflan E.C. prior to transplanting seedlings. The higher rate of application will result in better weed control and longer persistence in the soil.

Refer to General Information for Oilseed and Special Crops for details on application and incorporation.

Recommended Rates of Treflan E.C.(Litres per Hectare)

Crop	Soil Zones and Soil Organic Matter	Soil Texture		
		Light	Medium to Heavy	
		sand sandy loam	loam silt loam silt sandy clay loam	silty clay loam clay loam silty clay clay
strawberries ▼ Saskatoon berries ▼	brown, dark brown or black 2-6% O.M.	1.7 L/ha	2.3 L/ha	
▼ Spring Application Only	black or deep black 6-15% O.M.	2.3 L/ha	2.3 L/ha	
asparagus - established three years		2.0 L/ha	3.1-4.2 L/ha [♦]	
American elm caragana green ash Scotch pine Siberian elm		4.7 L/ha (2-6% O.M.)	9.3 L/ha (6-15% O.M.)	

[♦]Use the higher rate for season long weed control.

NOTE: Treflan E.C. at 2.3 L/ha may be applied preplant incorporated one week prior to sowing Siberian elm seed for annual grass and broadleaved weed control.

NOTE TO BUYER/USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS: THE DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Dow AgroSciences Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Dow AgroSciences Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed on this label.

Accordingly, the Buyer and User assume all liability arising, and agree to hold Dow AgroSciences Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use(s) described on this label.

TREFLAN E.C. PLUS SENCOR 75 DF (TANK-MIX) IN SHELTERBELTS

Crops Registered

caragana
 villosa lilac
 Saskatoon berry
 green ash
 chokecherry
 poplar
 sea-buckthorn

Weeds Controlled

wild oats
 witchgrass
 lamb's-quarters
 purslane
 shepherds purse
 green foxtail
 Russian thistle
 wild buckwheat
 stinkweed
 prostrate pigweed

DIRECTIONS FOR USE

Make one application, pre-plant incorporated. Apply as a ground treatment. Apply at a rate of 5.2 L/ha Treflan E.C. plus 400 g/ha Sencor 75 DF in 100-225 L water/ha.

IMPORTANT: Refer to the Treflan E.C. label for correct sequence when mixing Treflan E.C. and Sencor in the spray tank.

Refer to the Sencor label for directions for use and special precautions.

USE OF TREFLAN E.C. FOR VEGETABLES

Apply Treflan E.C. prior to planting. Follow all recommended soil preparation, application and incorporation procedures for Treflan E.C. Apply only in spring.

USE OF TREFLAN E.C. FOR VEGETABLE CROPS (SPRING APPLICATION ONLY)

Recommended Rates of Treflan E.C. (Litres per Hectare)

Crop	Soil Zones and Soil Organic Matter	Soil Texture	
		Light	Medium to Heavy
		sand sandy loam	loam silty clay loam silt loam silt sandy clay loam clay loam silty clay clay
carrots snap beans, common rutabaga tomatoes	brown, dark brown or black 2-6% OM	1.7 L/ha	2.3 L/ha
broccoli [▼] Brussels sprouts [▼] cauliflower [♦] cabbage [♦]	black or deep black 6-15% OM	2.3 L/ha	2.3-3.0 L/ha [†]

[♦]Direct seeded or transplanted.

[▼]Transplants only.

[†]Use the 3.0 L/ha rate for heavy wild oat infestations (cole crops only).

USE OF TREFLAN E.C. FOR FORAGE LEGUMES (SEED PRODUCTION/FORAGE)

Apply Treflan E.C. prior to seeding. Follow recommended soil preparation, application and incorporation procedures for Treflan E.C. Apply only in the spring. Do not exceed the maximum application rate of 2.3 L/ha.

Recommended Rates of Treflan E.C. (Litres per Hectare)

Crop	Soil Zones and Soil Organic Matter	Soil Texture	
		Light	Medium to Heavy
		sand sandy loam	loam silt loam silt sandy clay loam
seedling alsike clover red clover cicer milkvetch bird's-foot trefoil	brown, dark brown or black 2-6% OM	1.7 L/ha	2.3 L/ha
	black or deep black 6-15% OM	2.3 L/ha	2.3 L/ha

TREFLAN E.C. FOR USE IN EASTERN CANADA AND BRITISH COLUMBIA

GENERAL INFORMATION

Crops Registered

soybeans
dry common beans (white or kidney)
faba beans
snap beans, common
Lima beans
black beans
canola
triazine tolerant canola (Pedigreed seed only)
forage rape
forage kale
transplants of tomatoes, peppers, Brussels
sprouts, broccoli, cabbage, cauliflower and
strawberries (spring application only)
crambe
carrots

direct-seeded cabbage and cauliflower
ornamentals (woody nursery stock), perennials
sunflowers
stubble turnips (white) - for feed only
peas (field and canning)
mustard
alfalfa establishment (direct seeded)
winter wheat, fall rye and fall triticale (loose
silky bentgrass control only)
transplanted shelterbelts
rutabaga
asparagus - established 3 years
first year apple, apricot, cherry, peach, plum
and pear trees

Weeds Controlled

Annual Grasses

green and yellow foxtail
barnyard grass
crab grass
brome grass
cheat
stink grass
goose grass
annual bluegrass
wild oats
fall panicum
loose silky bentgrass

*Triazine tolerant varieties as well.

Annual Broadleaved Weeds

pigweed*
lamb's-quarters*
chickweed
purslane
knotweed
carpetweed

NOTE: When used as directed, Treflan E.C. will provide commercially acceptable control of the above weeds.

Recommended Rates Per Hectare of Treflan E.C. - Eastern Canada and British Columbia

Crop	Soil Texture		
	Light	Medium	Heavy
	sand sandy loam	loam silt loam silt sandy clay loam	silty clay loam clay loam silty clay clay
All crops registered (except for asparagus, winter cereals, peas and Lima beans)	1.2 L	1.7 L	2.4 L

The rates outlined in the previous table are general recommended rates of Treflan E.C. There are specific remarks which refer to individual crops that are noted as follows:

- In Lima beans and peas do not exceed 1.2 L/ha in medium textured soils and 1.7 L/ha in heavy textured soils.
- Treflan E.C. should not be applied to turnips and mustard on sandy and sandy loam soils.
- Direct-seeded cole crops have exhibited marginal tolerance to recommended rates of Treflan E.C. Stunting or reduced stand may occur.
- For strawberries, Treflan E.C. should be applied prior to planting transplants.
- With ornamentals and established woody nursery stock, spray the soil and incorporate as closely as possible to plants without causing damage to roots.
- Treflan E.C. should not be applied on ornamental ground covers such as Ajuga, Myrtle and Pachysandra, as injury may result.
- Unless otherwise directed, use the general rates of Treflan E.C. Apply and incorporate immediately prior to or up to 3 weeks before planting.

TREFLAN E.C. APPLICATION WITH FLUID FERTILIZERS

Treflan E.C. may be mixed with liquid nitrogen fertilizer (e.g., 28-0-0) for application preplant soil incorporated. All Treflan E.C. label recommendations regarding rates per hectare, approved crops, incorporation, special instructions, cautions and special precautions must be followed.

Treflan E.C. should be poured directly into the liquid fertilizer, mixed thoroughly and applied as soon as possible. Constant agitation is needed until application is complete. Apply the Treflan E.C./fertilizer mixture with a properly calibrated sprayer. Ensure that the material is applied uniformly to the soil surface. Follow normal Treflan E.C. incorporation procedures.

Compatibility Test

Small quantities of liquid fertilizer and herbicide should be tested for compatibility prior to tank-mixing.

1. Put 500 mL of liquid fertilizer into a 1 L jar.
2. Add 10 mL of Treflan E.C.
3. Close jar and shake well.
4. The herbicide and fertilizer are compatible if the herbicide remains in suspension after five minutes. If the herbicide settles out quickly but goes into suspension easily upon shaking, the mixture may be used provided constant agitation is utilized.
5. A compatibility test is also recommended when there is a change in fertilizer supplies, fertilizer formulations and climatic temperatures.

TREFLAN E.C. IMPREGNATED/COATED ONTO DRY GRANULAR FERTILIZER

Dry bulk fertilizer may be impregnated or coated with Treflan E.C. Application should be made as soon as possible after blending. All Treflan E.C. label recommendations regarding rates per hectare, approved crops, incorporation, special instructions, cautions and special precautions must be followed.

A minimum of 300 kg/ha of dry bulk fertilizer impregnated/coated with Treflan E.C. at the recommended rate must be applied. Mix and blend dry fertilizer and Treflan E.C. in any commonly used dry fertilizer blender, providing uniform spray coverage is obtained. Sufficient blending/mixing time should be allowed to ensure uniform coverage of dry fertilizer with Treflan E.C.

Spread the fertilizer/Treflan E.C. mixture with a properly calibrated granular fertilizer applicator. Be certain the blended material is applied uniformly to the soil surface. The first incorporation should be completed as soon as possible (within 24 hours) after fertilizer application. It is recommended to **delay the second incorporation for a period of at least three days** to ensure optimum Treflan E.C. dissipation within the soil.

CAUTION: Ammonium nitrate must not be impregnated with Treflan E.C. All other commonly used dry fertilizers may be used for Treflan E.C. impregnation.

NOTE: Compliance with the Fertilizer Act and Regulations (Agriculture and Agri-Food Canada) is the responsibility of the individual/company selling the Treflan E.C./fertilizer mixture.

TREFLAN E.C. FOR USE IN SOYBEANS

Treflan E.C. incorporated before planting soybeans will control most annual grasses and many broadleaved weeds. To control more weeds, use Treflan E.C. in combination with the following:

TREFLAN E.C. PLUS SENCOR OR LEXONE⁷ (TANK-MIX)

Rate per Hectare

Product	Soil Texture		
	Light	Medium	Heavy
Treflan E.C.	1.2 L	1.7 L	2.4 L
Sencor 500 F	850 mL	1.1 L	1.1 L
Sencor 75 DF	550 g	750 g	750 g
Lexone DF	-	550 g	700 g
Lexone L	-	850 mL	1.1 L

- Tank-mix combinations control all the weeds listed on the Treflan E.C. label plus many additional broadleaved weeds including smartweed, velvetleaf, wild mustard and common ragweed.
- Control of cocklebur may be erratic ranging from fair to excellent depending on soil temperature, time of weed germination, depth of weed seed in the soil and the amount and timing of soil moisture. Cultivation may improve control.
- Tank-mixes of Treflan E.C. and Sencor/Lexone may be applied up to 10 days before planting.
- Do not use on light soils with less than 2% organic matter.
- Applied according to directions and under normal growing conditions, tank-mixed Treflan and Sencor/Lexone will not reduce soybean yields.
- However, Sencor/Lexone alone has limited crop tolerance and initial crop injury may occur under certain conditions.
- Over-application may result in stunting, crop injury or soil residue.

- Uneven application or improper soil incorporation of the tank-mix can result in erratic weed control or crop injury depending on rate used.
- Seedling disease, cold weather, deep planting, excessive moisture, high soil pH (above 7.5), high salt concentration or drought may weaken soybean seedlings and increase the possibility of damage from Treflan E.C. and Sencor/Lexone. Under these conditions, delayed crop development or reduced yields may result.
- On variable soils with light sandy areas, some injury may occur on sandy areas if the rate used is for the heavier soil type in the field. Sandy loam and silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions.
- Do not plant metribuzin-sensitive soybean varieties Ace, Apache, Baron, Maple Amber, Maple Ridge, OAC Eramosa, IA 1003, S-240 or Nottawa on areas treated with Sencor/Lexone as unacceptable injury may result.
- Refer to the Sencor and Lexone labels for directions on use and special precautions. Do not use foliage from soybeans treated with the combination for forage.

IT IS IMPORTANT TO FOLLOW THE CORRECT SEQUENCE WHEN MIXING TREFLAN E.C. AND SENCOR/LEXONE IN THE SPRAY TANK. THE FOLLOWING STEPS ARE ESSENTIAL:

1. Fill the spray tank 1/4 to 1/3 full with clean water.
2. While continuing to fill the spray tank and with the agitation and recirculating system operating, slowly add the full amount of Sencor/Lexone for that tankload.
3. Fill the spray tank to the desired level with clean water, while maintaining constant agitation of the mixture.
4. After the full amount of Sencor/Lexone is thoroughly mixed, add the calculated amount of Treflan E.C. to the tank and agitate thoroughly.
5. Continuous agitation is required until the mixture is sprayed out. Do not allow the sprayer to stand without agitation or settling will occur and vigorous mixing with a paddle will be necessary to remix the chemical in the spray tank.

Variations in this mixing sequence may lead to incompatibilities.

TREFLAN E.C. FOLLOWED BY LOROX L⁸ OR AFOLAN F⁹ (SPLIT APPLICATION)

Rate per Hectare

Application / Product	Soil Texture		
	Light	Medium	Heavy
Preplant Incorporated / Treflan E.C.	1.2 L	1.7 L	2.4 L
Preemergence / Afolan F	-	2.0 L	2.7 L
Preemergence / Lorox L	-	1.75 L	2.25 L

- Do not use Afolan F on sand low in organic matter (less than 3%). Make a single application of Afolan F.
- Use Afolan F as a band or broadcast spray after planting soybeans (at least 5 cm deep) but before soybeans emerge. Refer to the Afolan F label for specific recommendations and precautions.
- Use the 1.75 L rate of Lorox L on light coloured soils with moderate organic matter (2 to 5%). Do not use Lorox L on coarse textured soils low in organic matter, as crop injury may result. Refer to the Lorox L label for specific recommendations.

TREFLAN E.C. FOLLOWED BY BASAGRAN¹⁰ PLUS ASSIST¹¹ (SPLIT APPLICATION)**Rate per Hectare**

Application / Product	Soil Texture		
	Light	Medium	Heavy
Preplant Incorporated / Treflan E.C.	1.2 L	1.7 L	2.4 L
Postemergence / Basagran plus Assist (1/2-1% of the spray volume)	1.75-2.25 L		

- Use Basagran as a postemergence treatment at the 1.75 to 2.25 L/ha rate (depending upon weeds present) plus Assist at 1/2 to 1% of the spray volume. Refer to the Basagran label for stage of crop for optimum weed control and specific recommendations.

TREFLAN E.C. FOR USE IN DRY COMMON BEANS (WHITE OR KIDNEY)

Treflan E.C. incorporated before planting dry common beans (white and kidney) will control most annual grasses and many broadleaved weeds. To control more weeds, use Treflan E.C. in combination with one of the following:

TREFLAN E.C. PLUS EPTAM¹² (TANK-MIX)**Rate per Hectare**

Application / Product	Soil Texture		
	Light	Medium	Heavy
Preplant Incorporated / Treflan E.C.	1.2 L	1.2 L	2.0 L
Eptam	2.5-3.75 L		

- Do not use Eptam plus Treflan E.C. tank mixture on Adzuki beans, cow peas (blackeye peas, blackeye beans), soybeans, Lima beans or other flat podded beans except Romano. Under abnormal weather conditions stunting may occur on Gratiot, Michilite, Sanilac, Seafarer and Seaway varieties. Do not use on muck or charcoal soils. Read and observe all directions and cautions on the label for Eptam.

TREFLAN E.C. FOLLOWED BY PATORAN FL¹³ OR AFESIN 2 EC¹⁴ (SPLIT APPLICATION)**Rate per Hectare**

Application / Product	Soil Texture		
	Light	Medium	Heavy
Preplant Incorporated / Treflan E.C.	1.2 L	1.7 L	2.4 L
Preemergence / Patoran FL (400 g/L)	2.9-3.4 L		
Preemergence / Patoran FL (670 g/L)	1.75-2.0 L		
Preemergence / Afesin 2 EC	3.75-5.5 L		

Use these rates of Afesin or Patoran FL (400 g/L and 670 g/L) only if preceded by a preplant incorporated herbicide. A higher rate of each is required if used alone in dry common beans (white and kidney). Refer to individual labels for specific recommendations.

TREFLAN E.C. FOLLOWED BY BASAGRAN PLUS ASSIST

Refer to soybean section for Treflan E.C. followed by a postemergent treatment of Basagran plus Assist.

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DIRECTIONS FOR USE

TREFLAN E.C. PLUS PURSUIT¹⁵ (TANK-MIX) PREPLANT INCORPORATED FOR USE IN WHITE BEANS

A Treflan E.C./Pursuit tank-mix provides broadleaf weed and grass control in white beans. Refer to the product labels for a complete list of weeds controlled. Only one application may be made per season. Apply by pre-plant incorporation, ground application.

Application rates:

Treflan E.C.: 1.25 - 2.4 L/ha
Pursuit: 313 mL/ha

Refer to the main Treflan E.C. and Pursuit labels for specific instructions, recommendations and precautions.

READ THE ROTATIONAL CROPPING RESTRICTIONS ON THE FULL LABEL BEFORE USING.

TREFLAN E.C. FOR STANDARD SPRING AND TRIAZINE TOLERANT CANOLA

Standard Canola

Treflan E.C. incorporated alone before planting canola will control most annual grasses and many broadleaved weeds. Refer to General Information for rates and recommendations.

Triazine Tolerant Canola

Treflan E.C. incorporated before planting canola will control most annual grasses and many broadleaved weeds. To control more weeds, use Treflan E.C. in combination with the following:

TREFLAN E.C. PLUS A REGISTERED POSTEMERGENCE TRIAZINE HERBICIDE FOR TRIAZINE TOLERANT CANOLA

NOTE: THIS TREATMENT FOR USE ONLY ON TRIAZINE TOLERANT CANOLA. NON-TRIAZINE TOLERANT CANOLA WILL BE KILLED BY THIS COMBINATION.

Treflan E.C. may be applied in the spring for triazine tolerant canola. A postemergence triazine herbicide registered for this use may then be applied after crop emergence to control several additional weeds. Refer to individual labels of the postemergence herbicides for specific recommendations and follow warnings and precautions as stated.

TREFLAN E.C. FOR USE IN TOMATOES

Treflan E.C., incorporated before planting tomatoes, will control most annual grasses and many broadleaved weeds. To control more weeds, use Treflan E.C. in combination with Sencor for the following:

TREFLAN E.C. PLUS SENCOR IN TRANSPLANTED TOMATOES (GROWN FOR PROCESSING ONLY)

Rate per Hectare

Application / Product	Soil Texture		
	Light	Medium	Heavy
Preplant Incorporated / Treflan E.C.	1.2 L	1.7 L	2.4 L
Preplant Incorporated* / Sencor 500F	0.5-0.6 L	0.75-1.1 L	1.2-1.4 L
Followed by Postemergence Sencor 500F	0.85 L	1.1 L	1.2-1.4 L

*Tank-mix with Treflan E.C.

- A postemergence directed application of Sencor 500F is used to control any weed escapes before they exceed 2.5 cm in height and 3 weeks or more after transplanting tomatoes. This should also leave a residual amount of Sencor 500F to maintain season-long control.
- This follow-up Sencor application is usually timed for early July, but should not be applied earlier than 21 days after transplanting tomatoes or no later than 60 days before harvesting.
- Refer to the Sencor 500F label for additional instructions and precautions.
- Treflan E.C. may damage transplants weakened by any cause which may result in reduced crop yield. To prevent damage, plant only healthy transplants; do not plant when cool, wet or unfavourable growing conditions exist. Follow all application and incorporation directions exactly.

TREFLAN E.C. USE FOR ASPARAGUS - ESTABLISHED THREE YEARS

Follow recommended soil preparation, application and incorporation procedures for Treflan E.C. Apply to established asparagus in the early spring after ferns are removed but before spear extension from the crowns. Or apply after harvest in the late spring or early summer before ferning begins.

CAUTION: Set implements so asparagus crowns are not injured during soil preparation and incorporation.

Rate per Hectare

	Soil Texture		
	Light	Medium	Heavy
Treflan E.C.	2.0 L	3.1 L	4.2 L

TREFLAN E.C. FOR USE ON FALL CEREALS GROWN IN ROTATION WITH FLUE-CURED TOBACCO TO CONTROL LOOSE SILKY BENTGRASS

POSTPLANT INCORPORATED (HARROWED IN AFTER SEEDING)

Crops Registered

winter wheat
fall rye
fall triticale

Treflan E.C. is applied and incorporated in the soil in the fall as soon as possible **after planting** and prior to the emergence of the fall cereal for the control of loose silky bentgrass. Weed control is achieved by establishing a shallow (2 cm) layer of Treflan E.C. near the soil surface. Within this layer, Treflan E.C. controls loose silky bentgrass by stopping growth as the seeds germinate. Crop safety is maintained since the fall cereal seeds are located in the untreated soil beneath the Treflan E.C. layer.

Application and Incorporation

Fall cereals should be seeded to a depth of 5 to 8 cm in a well-tilled seedbed. Apply Treflan E.C. at a rate of 0.8 to 1.2 L/ha product in a minimum of 100 L/ha water with a properly calibrated herbicide sprayer. Use the 1.2 L/ha rate for heavy infestations of loose silky bentgrass. Apply Treflan E.C. as soon as possible after seeding and before crop emerges, to soil surface which is free of trash. Incorporate to a shallow depth with diamond harrows or tyne harrows in two different directions at speeds of at least 8 km/hr. Both incorporations must be done within 24 hours of application.

TREFLAN E.C. USE FOR FIRST YEAR APPLE, APRICOT, CHERRY, PEACH, PLUM AND PEAR TREES

Treflan E.C. applied and incorporated before transplanting fruit trees will control most annual grasses and many broadleaved weeds. For the control of additional weeds, Treflan E.C. may be tank-mixed with Sencor. Do not apply more than one application per year.

Recommended Rates per Hectare

Product	Soil Texture		
	Light	Medium	Heavy
	sand sandy loam	loam silt loam silt sandy clay loam	silty clay loam clay loam silty clay clay
Treflan E.C.	1.2 L	1.7 L	2.4 L
Sencor 500F	850 mL	1.1 L	1.1 L
Sencor 75 DF	550 g	750 g	750 g

Refer to the Sencor label for directions on use and special precautions.

NOTE TO BUYER/USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS: THE DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Dow AgroSciences Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Dow AgroSciences Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed on this label.

Accordingly, the Buyer and User assume all liability arising, and agree to hold Dow AgroSciences Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use(s) described on this label.

TREFLAN E.C. PLUS DUAL PLUS SENCOR (TANK-MIX) PREPLANT INCORPORATED FOR USE IN TRANSPLANTED TOMATOES

DIRECTIONS FOR USE

A Treflan E.C./ Dual/ Sencor tank-mix provides control of broadleaved weeds (including triazine tolerant biotypes), annual grasses and Eastern black nightshade. Only one application may be made per year.

DO NOT USE ON DIRECT-SEEDED TOMATOES. Under cold, wet conditions or conditions that may adversely affect good transplant establishment: apply the spray solution and shallow incorporate (5-7.5 cm deep), then plant transplants 5-10 cm deep. Do not harvest crop within 60 days after application. Follow the rates listed in Table 1.

Table 1: Recommended Rates Of Treflan E.C./ Dual/ Sencor Tank-Mix for Use in Transplanted Tomatoes

Tank-Mix Component	Rates per Hectare for Specific Soil Textures	
	Light	Medium to Heavy
Treflan E.C.	1.1 L	2.1 L
Dual 960E	1.6 L	2.1 L *
Sencor 500 F	0.5 L	1.0 L
OR		
Sencor 75 DF	330 g	670 g

*use the higher rate of Dual for Eastern black nightshade control.

•Refer to the Dual and Sencor labels for specific recommendations and precautions.

Mixing Sequence

It is important to follow the correct sequence when mixing Treflan E.C., Sencor and Dual in the spray tank.

The following steps are essential when combining Treflan E.C. with Sencor and Dual:

1. Fill the spray tank 1/4 to 1/3 full with clean water.
2. While continuing to fill the spray tank and with the agitation and recirculating system operating, slowly add the full amount of Sencor for that tankload.
3. Fill the spray tank to the desired level with clean water, while maintaining constant agitation of the mixture.
4. After the full amount of Sencor is thoroughly mixed, add the calculated amount of Treflan E.C. to the tank and agitate thoroughly.
5. Add the calculated amount of Dual to the tank and agitate thoroughly.
6. To avoid any compatibility problems, spray immediately. Continuous agitation is required until the mixture is sprayed out. Do not allow the sprayer to stand without agitation or settling will occur and vigorous mixing with a paddle will be necessary to remix the chemical in the spray tank.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Treflan E.C. is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to Treflan E.C. and other Group 3 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of Treflan E.C. or other Group 3 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Dow AgroSciences Canada Inc. at 1-800-667-3852 or at www.dowagro.ca.

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER: Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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² Rival is a trademark of the Aventis Group

³ Fortress is a trademark of Monsanto Canada Inc.

⁴ Avadex BW is a trademark of Monsanto Canada Inc.

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⁶ Sencor is a trademark of Miles Canada Inc.

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⁸ Lorox L is a trademark of Dupont Canada Inc.

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¹⁰ Basagran is a trademark of BASF Canada Inc.

¹¹ Assist is a trademark of BASF Canada Inc.

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Resistance management text added

Residue level statement added

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