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TRIFLUREX 40 EC
CONTAINS TRIFLURALIN

AGRICULTURAL
HERBICIDE

Directions for Prairie Provinces

A Selective Herbicide for Pre-emergence Weed Control in
Many Field Crops, Vegetables and Shelterbelts.

READ THE LABEL AND ATTACHED INSTRUCTIONS BEFORE USING.

GUARANTEE:

Trifluralin 400 g/L

REGISTRATION No. 21815
PEST CONTROL PRODUCTS ACT

CAUTION POISON

11.3 Litres

SHAMROCK AGRO-TECH INC.
595 Exeter Road,
London, Ontario
N6E 2Z2

607-4th Avenue E.,
Regina, Saskatchewan
S4N 4Z8

INSTRUCTIONS FOR USE

Carefully read these instructions fully before using TRIFLUREX. Usage not in accordance with these instructions may result in inadequate weed control and may damage crop.

TRIFLUREX is a pre-emergence herbicide which is sprayed on and then mechanically mixed or incorporated into the soil. It kills weeds as they germinate. It does not kill established weeds. TRIFLUREX gives long lasting control of seedlings of annual grasses and broadleaf weeds detailed below.

WARNING

Special attention must be paid to the following aspects of usage:

- Rates must be accurately applied
- Apply only on soil types indicated (this excludes peat and muck soils).
- Apply only to soils with less than 15% organic matter which are dry and in good working condition. Soils with the potential of becoming waterlogged must not be treated.
- Incorporation is an essential part of application. When correctly applied to crops under normal conditions, TRIFLUREX will not harm the crop. Any stress factors such as wet soils, incorrect planting depth, seedling disease, low temperatures, excessive salt in the soil or drought, could bring about damage to the crop from TRIFLUREX.
- It is recommended that the following crops not follow TRIFLUREX in the rotation cycle: Oats, Small seeded annual grasses such as Canary Seed Grass; Sugarbeets; Creeping Red Fescue; Timothy Grass. Under normal conditions there will not be a carryover. However, the above recommendation is precautionary.

DIRECTIONS FOR USE ON OILSEED CHOPS

LAND PREPARATION

Cultivate to destroy existing weeds before TRIFLUREX application. When applying to stubble fields, chop and thoroughly mix crop residues into soil to a depth of 10-15 cm. Disc type implements provide the best results. See table below for weeds controlled and crops registered.

APPLICATION

Add the recommended amount of TRIFLUREX 40 EC to clean water in the spray tank during the filling operation and agitate thoroughly. Apply in at least 100 litres 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. Apply with ground equipment only. Apply TRIFLUREX to soil surface and incorporate in the same operation if possible. Ensure that large clods are broken. Do not delay incorporation more than 8 hours after application. When applied as directed, TRIFLUREX will not harm crops that follow in rotation; however, over-calibration, non-uniform application or other excess applications may cause injury to crops that follow in rotation.

INCORPORATION

To incorporate, work TRIFLUREX into the soil in two different directions. Use a tandem disc, discer or field (Vibrashank type) cultivator for the first incorporation, set to work 7.5-10 cm deep. Disc or cultivate in cross direction at the same depth. Operate disc implements at 6.5-10 km/hr, cultivators at 10-13 km/hr.

TRIFLUREX should not be incorporated with field cultivator when soil is crusted, lumpy or too wet for good mixing action. Disc type implements are preferred on stubble.

Incorporation with implements set to cut less than 7.5 cm deep or more than

10 cm deep may result in erratic weed control or crop damage.

Rod weeders, harrows or hoe drills will not properly incorporate TRIFLUREX.

FALL APPLICATION

Check application rates and incorporation instructions above. Ensure timely incorporation. Apply between September 1st and before soil freeze-up for weed control the following year. Two incorporations in the fall are recommended to be followed by shallow tillage (5-8 cm) in the spring before planting. However, if this is not convenient, the first incorporations within 8 hours of spraying can be followed by a second in the spring when the seed bed is being prepared. Always ensure incorporation to the correct depth. (See Spring tillage recommendations below).

SUMMER APPLICATION

Check application rates and incorporation instructions above. Ensure timely incorporation. Apply TRIFLUREX to summer fallow between June 1st and September 1st. Ensure that incorporation must be within 8 hours of spraying. The timing of subsequent incorporations can be suited to the necessity to destroy resistant weed growth later in the season. Before planting in the spring, ensure shallow tillage (5-8 cm). (See Spring tillage recommendations below).

SPRING TILLAGE FOR SEEDBED PREPARATION

In spring, once the soil is warm enough to promote germination, it must be tilled if summer or fall application of TRIFLUREX have been made. Till to a depth of 5-8 cm with a suitable implement such as a disc or Vibrashank cultivator. Follow accepted practices and prevent transplanting weed seedlings.

WEEDS CONTROLLED

The following weeds are controlled with TRIFLUREX when sprayed according to these instructions:

ANNUAL GRASSES

Wild Oats*
Green & Yellow Foxtail (Wild Millet)
Barnyardgrass
Crabgrass
Bromegrass
Cheat
Stinkgrass
Goosegrass
Annual Bluegrass
Persian Darnel

ANNUAL BROADLEAVES

Wild Buckwheat*
Cowcockle*
Pigweed
Lambsquarters
Russian Thistle
Chickweed
Purslane
Knotweed
Carpetweed

NOTE: *Wild Oats and Wild Buckwheat are not fully controlled but retarded by TRIFLUREX. Crop growth will not be seriously hampered by these retarded weeds.

CROPS REGISTERED

Rapeseed	Sunflower
Dry Beans (Field or Kidney Beans)	Mustard
Black Beans	Faba Beans (Horsebeans)
Peas (Field or Canning)	Crambe
Transplanted Shelterbelts	

TRIFLUREX APPLICATION WITH FLUID FERTILIZERS

TRIFLUREX may be mixed with liquid nitrogen fertilizer, (eg. 28-0-0) for application either preplant soil incorporated or postplant incorporated. TRIFLUREX may also be tank mixed with *Avadex BW and liquid fertilizer for postplant incorporated application in wheat or barley. All TRIFLUREX label recommendations regarding rates per hectare, approved crops, incorporation, special instructions, cautions and special precautions must be followed. TRIFLUREX 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 TRIFLUREX fertilizer mixture with a properly calibrated sprayer. Ensure that the material is applied uniformly to the soil surface. Follow normal TRIFLUREX incorporation procedures.

COMPATIBILITY TEST: Because of the wide range of fertilizer products, small amounts of liquid fertilizer and TRIFLUREX should be tested for compatibility prior to tank mixing.

- (1) Place 500mL of liquid fertilizer in a 1 L jar
- (2) Pour in 10 mL of TRIFLUREX
- (3) Close jar and shake well
- (4) Leave jar sit for 5 minutes

TRIFLUREX and fertilizer are compatible if TRIFLUREX remains in suspension. If the TRIFLUREX settles out quickly but goes into suspension easily upon shaking, the mixture may be used provided constant agitation is utilized.

RECOMMENDED RATES OF TRIFLUREX 40 EC PER HECTARE

CROP	SOIL TEXTURE		REMARKS
	Light	Medium or Heavy	
	Sand Sandy Loam (Less than 6% Organic matter)	Loam Silt Loam Silt Sandy clay loam (All soils with 6-15% organic matter) Silty clay Clay loam Clay	

SPRING APPLICATION	RATE L/ha		
Rapeseed Sunflower Mustard Faba Beans Crambe Peas (Field & Canning) Black Beans Dry Beans (Field & Kidney)	2.0 litres	2.75 litres	TRIFLUREX can be applied immediately prior to, or up to 3 weeks before planting.
Shelterbelts (American Elm, Coragana, Green Ash, Scotch Pine and Siberian Elm)	5.5 litres	11.0 litres	Apply prior to transplanting seedlings. The higher rate of application will result in better weed control and longer persistence in the soil.
FALL APPLICATION			
Rapeseed Sunflower Mustard Peas Faba Beans Black Beans Dry Beans (Field & Kidney)	2.75 litres	3.50 litres	Apply and incorporate between September 1st and up to soil freeze-up.
SUMMER APPLICATION			
Rapeseed	All soils at 4.25 litres		Apply and incorporate between June 1st and September 1st. Second and subsequent incorporations may be done any time up to soil freeze-up.

Note: Do not delay incorporation more than 8 hours after application.

CONTROL OF GREEN FOXTAIL (WILD MILLET) IN WHEAT & BARLEY

MODE OF ACTION

Most Green Foxtail seeds germinate in the upper 5 cm of the soil. TRIFLUREX sprayed and incorporated into this zone will prevent germination. Wheat and Barley seed should be sown below this layer (5-8 cm) to prevent crop damage. Apply and incorporate TRIFLUREX after planting but before emergence of Wheat or Barley.

RECOMMENDED RATES:	Light Soils	Heavy Soils
	1.4 L/ha	2.1 L/ha

APPLICATION AND INCORPORATION OF TRIFLUREX

Seed the crop to a depth of 5-8 cm in a well tilled seedbed. Before crop emergence apply TRIFLUREX at the recommended rate (see above) according to the following procedure.

- Use a low pressure sprayer which delivers spray mix uniformly. Calibrate before operation. Calculate the quantity of TRIFLUREX needed. Use at least 100 L water in the spray tank per hectare (broadcast basis). Add TRIFLUREX to the spray tank while filling up with clean water. Agitate thoroughly.
- Check sprayer operation daily before spraying and regularly while spraying to ensure maintenance of calibration and uniform application.
- The soil surface must be clean of trash or have been followed the previous year. Incorporate to a shallow depth in two directions (see mode of action above). Use diamond harrows, tyne harrows or other similar implements travelling at 8 km/hr. Where possible spray and incorporate in the same operation. Incorporate twice within 8 hours.

APPLICATION OF TRIFLUREX PLUS AVADEX BW* IN TANKMIX IN WHEAT AND BARLEY

Post plant, pre-emergence application:

RECOMMENDATION

Apply only to trash free soils or soils followed the previous year. Seed to a depth of 5-8 cm with a conventional seeder. Apply and incorporate in the spring after planting prior to the emergence of the crop. Caution must be taken to incorporate shallow above the crop seeds (see mode of action above). Use diamond harrows, tyne harrows or other similar implements. Incorporate in two different directions. To the above mentioned recommended rates for TRIFLUREX add AVADEX BW* at a rate of 3.5 L/ha in wheat and 4.25 L/ha in barley (Broadcast basis)

CAUTION

TRIFLUREX may affect crops adversely if not used strictly in accordance with these instructions (see mode of action above). It can only be used on crops

mentioned on this label. The only grain crops for which it is suitable for use are wheat and barley. It may not be used on other grain crops such as oats, rye or grass crops. Conditions causing seedling stress, such as wet soils, incorrect planting depth, seedling disease, low temperatures, excessive salt in the soil or drought, could bring about damage to the crop from TRIFLUREX.

Spraying with TRIFLUREX may not provide satisfactory control of weeds other than Green Foxtail (Wild Millet) in wheat and barley.

PRECAUTIONS

Warning - Skin and eye irritant. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Gloves and goggles should be worn when handling. Avoid inhalation of vapours. Keep out of reach of children. Do not store near heat or flame. Avoid contamination of food stuffs, feed and fish ponds.

FIRST AID

In case of contact with eyes, flush with water immediately. If swallowed do not induce vomiting but contact physician immediately, taking product label with you. Toxicological information: Contains petroleum distillates.

STORAGE

If stored below -18 Degrees C bring the contents to 15 degrees C for 24 hours and shake well before using.

DISPOSAL

Rinse the emptied container thoroughly and add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product and the clean-up of spills, contact the regional office of Conservation and Protection, Environment Canada.

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 of handling of this product and accepts the product on that condition.

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