

Approved English Label  
Sub. No. 2024-2735  
2024-08-01

(Container)

# FBN Trifluralin 10% Herbicide

GROUP	3	HERBICIDE
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A selective granular herbicide for preplant soil incorporated weed control in many field crops.

COMMERCIAL (AGRICULTURAL)

Active Ingredient: trifluralin .....10%

Granular

REGISTRATION NO. 35256 PEST CONTROL PRODUCTS ACT

READ THIS LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**DANGER: EYE IRRITANT POTENTIAL SKIN SENSITIZER**

**CAUTION: FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN  
ERRATIC WEED CONTROL OR CROP DAMAGE**

**FOR EMERGENCY MEDICAL ASSISTANCE (HUMAN OR ANIMAL) CONTACT  
ROCKY MOUNTAIN POISON CONTROL AT 1-866-767-5041.**

**FOR CHEMICAL EMERGENCY ASSISTANCE (SPILL, LEAK, FIRE OR ACCIDENT)  
CONTACT CHEMTREC AT 1-800-424-9300 (NORTH AMERICA) OR 1-703-527-3887  
(INTERNATIONAL).**

NET CONTENTS: 22.7 – 1000 kg

**Farmer's Business Network Canada, Inc.**  
PO Box 5607  
High River, Alberta  
Canada T1V 1M7  
1-844-200-FARM (3276)

**PRECAUTIONS**  
**KEEP OUT OF REACH OF CHILDREN**  
**POTENTIAL SKIN SENSITIZER DANGER: EYE IRRITANT**  
**DO NOT APPLY BY AIR**

Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid contamination of foodstuffs, feed and fish ponds.

All handlers must wear a long-sleeved shirt and long pants. In addition, wear chemical-resistant gloves during mixing, loading, repair and clean-up activities.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

Wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when handling. For application to stored grain or when using a dust blower, wear a NIOSH-approved supplied-air respirator (SAR) operated in a pressure-demand or other positive-pressure mode during mixing, loading and application.

**FIRST AID**

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

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**TOXICOLOGICAL INFORMATION**

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient.

**AGRICULTURAL CHEMICAL**

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

**ENVIRONMENTAL PRECAUTIONS**

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. To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

## **STORAGE**

Store this product away from food or feed. Store in areas not exposed to high temperatures, prolonged, direct sunlight or moisture. Also, do not let product remain in granular applicators under these conditions. After filling the granular applicator, close the lid immediately to avoid prolonged exposure to direct sunlight.

## **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/ territorial 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 and the provincial/ territorial regulatory agency. Contact the manufacturer and the provincial/ territorial regulatory agency in case of a spill, and for clean-up of spills.

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

(Booklet)

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**DANGER: EYE IRRITANT POTENTIAL SKIN SENSITIZER**  
**DO NOT APPLY BY AIR**

Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid contamination of foodstuffs, feed and fish ponds.

All handlers must wear a long-sleeved shirt and long pants. In addition, wear chemical-resistant gloves during mixing, loading, repair and clean-up activities.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

Wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when handling. For application to stored grain or when using a dust blower, wear a NIOSH-approved supplied-air respirator (SAR) operated in a pressure-demand or other positive-pressure mode during mixing, loading and application.

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**TOXICOLOGICAL INFORMATION**

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient.

**AGRICULTURAL CHEMICAL**

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

**ENVIRONMENTAL PRECAUTIONS**

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. To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

### **STORAGE**

Store this product away from food or feed. Store in areas not exposed to high temperatures, prolonged, direct sunlight or moisture. Also, do not let product remain in granular applicators under these conditions. After filling the granular applicator, close the lid immediately to avoid prolonged exposure to direct sunlight.

### **DISPOSAL**

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### **GENERAL INFORMATION**

FBN Trifluralin 10% Herbicide is a preemergence herbicide which is mixed (incorporated) into the soil to provide long-lasting control of many annual grasses and broadleaved weeds. FBN Trifluralin 10% Herbicide controls susceptible weeds by killing seedlings as they germinate. It does not control established weeds or weeds which germinate below the treated soil layer.

- DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.
- Discard clothing or other absorbent materials that have been heaving contaminated with this product. DO NOT reuse them.
- Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.
- DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

- To minimize the release of trifluralin into the environment due to volatilization, trifluralin should only be applied on cool mornings and evenings when air temperatures are 15°C or lower. To further reduce volatilization to the atmosphere, incorporation into the soil should occur concurrently with application.

### **INSTRUCTIONS**

FAILURE TO FOLLOW LABEL INSTRUCTIONS 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 FBN Trifluralin 10% Herbicide 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 FBN Trifluralin 10% Herbicide 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, FBN Trifluralin 10% Herbicide 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, FBN Trifluralin 10% Herbicide 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 FBN Trifluralin 10% Herbicide.
- The persistence of FBN Trifluralin 10% Herbicide 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 FBN Trifluralin 10% Herbicide 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%).
- Do not seed wheat as a rotational crop if trifluralin and/or ethalfluralin has been used at an oilseed/special crop/barley rate for two consecutive crops.
- 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 which have had a long history of repeated trifluralin use. Trifluralin or ethalfluralin containing products (i.e., FBN Trifluralin 10% Herbicide, RHI Trifluralin 480 EC Liquid Herbicide, Heritage<sup>®</sup>, Triflurex<sup>1</sup>, Rival<sup>2</sup>, Fortress<sup>3</sup> and FBN Ethalfluralin Herbicides) 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, Farmer's Business Network Canada, Inc. strongly recommends rotating the use of herbicides that have different modes of action. Consult provincial/ territorial extension personnel for more information.



## **DIRECTIONS FOR USE IN OILSEED AND SPECIALTY CROPS**

### **Land Preparation**

When applying to unworked stubble fields, cultivate once before application of FBN Trifluralin 10% Herbicide to allow granules to penetrate to the soil surface. If existing weed growth is heavy, cultivate to destroy existing weeds before application of FBN Trifluralin 10% Herbicide. Disc-type implements provide the best results. To avoid concentrating wild oat seeds below the treated layer, do not plow (moldboard) land prior to application of FBN Trifluralin 10% Herbicide. If the swath is removed by burning, cultivate once to remove charcoal layer prior to application of FBN Trifluralin 10% Herbicide.

### **Application**

Apply with a properly calibrated granular herbicide applicator that will apply the granules uniformly. Calibrate the applicator according to manufacturer's directions and check frequently during application to be sure equipment is working properly. Avoid concentration of the material in narrow bands. Apply FBN Trifluralin 10% Herbicide 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, FBN Trifluralin 10% Herbicide will not harm the treated crop or crops that follow in rotation; however, an over-application caused by overlapping, improper calibration, non-uniform application etc. may reduce stands of the treated crop or rotational crops.

### **Incorporation**

To incorporate, work FBN Trifluralin 10% Herbicide into the soil in two different directions. Use a tandem disc, discer or field (vibra-shank type) cultivator set to work 8 to 10 cm deep for the first incorporation. Disc or cultivate in a cross direction at the same depth. Operate disc implements at 7 to 10 km/hr and cultivators at 10 to 13 km/hr. DEEP TILLAGE CULTIVATOR NOT RECOMMENDED. A field cultivator (vibra-shank 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.

- FBN Trifluralin 10% Herbicide 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 or crop damage.
- Rod weeders, harrows, deep tillage cultivators, chisel plows or hoe drills will not properly incorporate FBN Trifluralin 10% Herbicide.

**NOTE:** FOR MORE EFFECTIVE WEED CONTROL, IT IS RECOMMENDED THAT THE SECOND INCORPORATION MUST BE DELAYED FOR AT LEAST 3 DAYS FOLLOWING THE FIRST INCORPORATION. THIS ALLOWS TIME FOR GREATER RELEASE OF FBN TRIFLURALIN 10% HERBICIDE ONTO SOIL PARTICLES AND ASSURES MORE UNIFORM DISTRIBUTION IN SOILS.

### **Fall Application**

FBN Trifluralin 10% Herbicide can be applied in the fall between September 1 and prior to soil freeze-up for weed control the following year. On all deep black soils and heavy textured soils, early fall application is preferred to allow more time for even dispersion of FBN Trifluralin 10% Herbicide in the treated soil layer. Apply fall rates and incorporate as above. The initial incorporation must be done within 24 hours of application.

**FOR BEST RESULTS IT IS RECOMMENDED TO DO BOTH INCORPORATIONS IN THE FALL FOLLOWED BY TILLAGE (5 to 8 cm) IN THE SPRING PRIOR TO PLANTING.**

### **Summer Application**

FBN Trifluralin 10% Herbicide can be applied to summerfallow between June 1 and September 1 for weed control in canola and flax the following year. Apply the summer rate and incorporate as above. FBN Trifluralin 10% Herbicide must be incorporated at least twice with the implement operated in two different directions. The initial incorporation must be done within 24 hours of application. The second incorporation (and subsequent incorporations) may be done whenever necessary to destroy resistant weed growth during the remainder of the summerfallow. Tillage (5 to 8 cm) is necessary in the spring prior to seeding (refer to Spring Tillage for Seedbed Preparation). DO NOT APPLY TO SAND AND SANDY LOAM SOILS.

### **Spring Tillage For Seedbed Preparation**

Spring tillage following summer or fall application of FBN Trifluralin 10% Herbicide should be done prior to seeding when the soil is warm enough to promote germination. Use a disc or field cultivator (vibra-shank) set to cut at 5 to 8 cm deep. On all deep black soils and heavy textured soils, it is recommended to prework the soil early in the spring to aerate the layer treated with FBN Trifluralin 10% Herbicide for optimum weed control. Avoid transplanting weed seedlings; seed into a weed-free seedbed using accepted cultural practices. Avoid excessive compaction of the soil layer treated with FBN Trifluralin 10% Herbicide. 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.

### **WEEDS CONTROLLED**

#### **Annual Grasses**

wild millet (green<sup>x</sup> and yellow foxtail)  
barnyard grass  
Persian darnel  
crab grass  
meadow brome grass  
cheat  
stink grass  
goose grass  
annual blue grass

#### **Annual Broadleaved Weeds**

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

### **WEEDS SUPPRESSED**

Wild oats

\*FBN Trifluralin 10% Herbicide will not control trifluralin tolerant green foxtail. See specific recommendations in Warning section of this label.

**NOTE:** When used as directed, FBN Trifluralin 10% Herbicide will provide commercially acceptable control of the above weeds. Some wild oats and wild buckwheat may escape the herbicidal action of FBN Trifluralin 10% Herbicide but will be retarded in growth and will provide little competition to the crop.

### CROPS REGISTERED

canola	barley (fall application only)
triazine tolerant canola (t.t. canola)	flax (summer and
fall application only) mustard	soybeans
sunflower	dry beans
peas (field and canning)	fababeans
lentils (fall application only)	alfalfa establishment (flax and canola cover crops
only)	only)

**Table 1: Recommended Rates of FBN Trifluralin 10% Herbicide in Oilseed And Special Crops**

Crop	Soil Zones And % of Soil Organic Matter	Rates per Hectare for Specific Soil Textures	
		Light	Medium to Heavy
		sand sandy loam	loam silty clay loam silt loam clay loam silt silty clay sandy clay loam clay
<b>Summer</b> canola, t.t. canola, flax (do not use on low linolenic acid varieties)	brown, dark brown, black or deep black	not recommended	17 kg/ha
<b>Fall</b> canola, t.t. canola, lentils, sunflower, fababeans, mustard, flax, peas, soybeans, dry beans, alfalfa establishment	brown, dark brown or black 2-6% O.M.	11 kg/ha	14 kg/ha
	black or deep black 6-15% O.M.	14 kg/ha	14-17 kg/ha (use 17 kg/ha for heavy wild oat infestations)

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

### SPECIAL INSTRUCTIONS FOR FLAX (Do not use on low linolenic acid varieties) AND LENTILS

- Both incorporations of FBN Trifluralin 10% Herbicide must be done in the season of application prior to seeding in the spring. Leave at least 3 days between incorporations.
- 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.
- Seeding should be done with a press drill or hoe drill. Seed into a moist seedbed no more than 4 cm deep.
- Do not seed flax early in May when soil conditions are cold. Seeding should generally not be prior to May 15.
- Refer to Warning statement regarding stresses that can lead to crop injury or yield reduction.

## **FBN TRIFLURALIN 10% HERBICIDE 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.

FBN Trifluralin 10% Herbicide may be applied in the summer or fall for triazine tolerant canola. A postemergence triazine herbicide registered for this use may then be applied after crop emergence to control several additional broadleaved weeds. Refer to individual labels of the postemergence herbicides for specific recommendations and follow warnings and precautions as stated.

### **SPECIAL INSTRUCTIONS FOR USE IN BARLEY - FALL APPLICATION ONLY**

User instructions must be followed closely to ensure good crop tolerance.

**Table 2: Recommended Rates of FBN Trifluralin 10% Herbicide in Barley (Fall Application Between September 1 and Freeze-Up Only)**

Soil Zones and % of Organic Matter	Rates per Hectare for Specific Soil Textures		
	Light	Medium	Heavy
		to (most soils)	
	sand sandy loam	loam silt loam silt sandy clay loam	silty clay loam clay loam silty clay clay
brown and dark brown 2-4% O.M.	8.5 kg/ha	11 kg/ha	
black 4-6% O.M.	11 kg/ha	14 kg/ha	

### **Rates**

Be sure to use the rates recommended for barley outlined in Table 2. For a list of weeds that are controlled in barley, refer to the Weeds Controlled section of this label. For barley, do not apply FBN Trifluralin 10% Herbicide on grey-wooded soils or other soils containing less than 2% organic matter or on black/deep black soils containing more than 6% organic matter. Application to eroded knolls may result in reduced crop stand.

### **Incorporation**

General instructions for Incorporation and Fall Application are the same for barley as outlined in the Directions For Use section of this label. HOWEVER, ON BARLEY BOTH INCORPORATIONS MUST BE DONE IN THE FALL.

Refer also to the Land Preparation and Application sections of this label.

### **Seeding**

Seeding should be done with a press drill or hoe drill. Seed into a moist, warm seedbed with the drill set to seed shallow (approximately 5 cm deep). Use of discers and air seeders can result in uneven emergence of the barley due to the loose seedbed and variable seeding depth. If a discer or air seeder is used, the field should be packed or harrowed after seeding to promote quick and even germination. Do not seed early when soils are cold.

#### **Precautions For Use In Barley**

- Do not apply FBN Trifluralin 10% Herbicide on stubble in the fall for barley when the crop harvested in the current calendar year was treated with either: FBN Trifluralin 10% Herbicide, RHI Trifluralin 480 EC Liquid Herbicide (or a product containing trifluralin) or FBN Ethalfluralin (ethalfluralin) Herbicides. This includes applications made in the previous summer or fall.
- Refer to the Warning statement regarding stresses that can lead to crop injury or yield reductions. Apart from these conditions, any early season effects on crop development that may be noted are temporary and the crop will develop to full yield potential.

#### **FALL APPLICATION TO STUBBLE OR SUMMERFALLOW FOR CONTROL OF GREEN FOXTAIL IN WHEAT CROPS REGISTERED**

spring wheat (includes  
semi-dwarf)  
durum wheat

#### **WEED CONTROLLED IN CROP YEAR**

green foxtail<sup>x</sup> (wild millet)

During the crop year, FBN Trifluralin 10% Herbicide will provide commercially acceptable control of green foxtail.

<sup>x</sup>FBN Trifluralin 10% Herbicide will not control trifluralin tolerant green foxtail. See specific recommendations in Warning section of this label.

#### **Recommended Rates Of FBN Trifluralin 10% Herbicide Per Hectare (FALL APPLICATION)**

Soils between 2% and 8% organic matter.

**Date of Application** September 1 to freeze-up

**Rate of product per hectare** 5.5 kg/ha

#### **WARNING**

- Application to severely eroded knolls may result in reduced crop stand.
- 5.5 kg/ha is the maximum rate for wheat. Do not use higher rates for wheat as crop injury may result.

**CAUTION:** Do not apply FBN Trifluralin 10% Herbicide on stubble in the fall for wheat when the crop harvested in the current calendar year was treated with FBN Trifluralin 10% Herbicide, RHI Trifluralin, Heritage, (or a trifluralin product) or FBN Ethalfluralin (ethalfluralin) herbicides. This includes applications made in the previous summer or fall.

#### **Land Preparation**

FBN Trifluralin 10% Herbicide may be fall applied to summerfallow and to standing or preworked stubble, provided trash is not so heavy as to prevent soil mixing due to plugging of the implement. FBN Trifluralin 10% Herbicide may be applied over top of moderate green growth (not affecting soil mixing). If green growth is heavy (interfering with soil mixing), destroy existing growth before application of FBN Trifluralin 10% Herbicide either by cultivation or with the application of a recommended herbicide. If the swath is removed by burning, cultivate once to remove charcoal layer prior to FBN Trifluralin 10% Herbicide application.

### **Application**

FBN Trifluralin 10% Herbicide can be applied in the fall between September 1 and prior to soil freeze-up for green foxtail control the following year. Apply with a properly calibrated granular herbicide applicator that will apply the granules uniformly. Calibrate the applicator according to manufacturer's directions and check frequently during application to ensure the equipment is working properly. Avoid concentration of the material in narrow bands or strips. Apply FBN Trifluralin 10% Herbicide to the 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, FBN Trifluralin 10% Herbicide will not harm crops that follow in rotation; however, an over-application caused by overlapping, improper calibration, non-uniform application etc., may reduce stands of crops that follow in rotation.

### **Incorporation**

Incorporate FBN Trifluralin 10% Herbicide into the soil in two different directions using a field cultivator, deep tillage cultivator or disc implement operated at 8 to 10 km/hr and set to work 5 to 8 cm deep. The second working should be done in a cross direction at the same depth.

To conserve trash cover throughout the winter, one incorporation may be completed in the fall with the second incorporation done in spring at the time of seedbed preparation.

Both incorporations may be completed in the fall. If so, it is recommended that the second working be delayed at least 3 days following the first. This allows time for greater release of FBN Trifluralin 10% Herbicide onto the soil particles and assures more uniform distribution in the soil. The second incorporation should be done in a cross direction to the first and at the same depth.

- FBN Trifluralin 10% Herbicide should not be incorporated with a field cultivator when the soil is crusted, lumpy or too wet for good mixing action.
- Incorporation with implements set to cut less than 5 cm deep or more than 8 cm deep may result in erratic weed control or crop damage.
- Rod weeders, harrows or hoe drills will not properly incorporate FBN Trifluralin 10% Herbicide.

### **Spring Tillage For Seedbed Preparation**

All spring tillage following fall application of FBN Trifluralin 10% Herbicide should be done when the soil is warm enough to promote germination.

When only one incorporation is completed in the fall to conserve trash cover, the spring tillage should be done at an angle or cross direction to the fall incorporation with the implement operated at a 5 to 8 cm depth.

When both incorporations are completed in the fall, shallow spring tillage (no deeper than fall incorporation) should be completed with a cultivator or disc implement.

Avoid transplanting weed seedlings.

### **Seeding**

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Seed into a firm, moist, weed-free seedbed using a double disc press drill or hoe drill set to seed 3 to 6 cm deep.

If a discer or air seeder is used for seeding, separate spring tillage may not be necessary. However, care must be exercised such that the discer or air seeder is set to uniformly place the seed 3 to 6 cm deep and the seedbed should be firmly packed or harrowed after seeding to promote good germination.

To reduce the risk of **wheat** injury, use quality seed and agronomic practices which will promote good growing conditions. Avoid deep seeding, loose seedbeds and seeding into cold soils. When seeding **semi-dwarf wheat**, special care should be taken to ensure shallow seeding. Check local recommendations for proper seeding depth.

#### **DIRECTIONS FOR USE ON SUMMERFALLOW**

FBN Trifluralin 10% Herbicide is a preemergence herbicide which is blended (mixed into the soil) to provide control of several annual grasses and annual broadleaved weeds during both years of the summerfallow wheat rotation. FBN TRIFLURALIN 10% HERBICIDE CONTROLS SUSCEPTIBLE WEEDS BY KILLING SEEDLINGS AS THEY GERMINATE. It will not control established weeds.

#### **CROPS REGISTERED**

spring wheat (includes semi-dwarf)  
durum wheat

#### **WEEDS CONTROLLED**

##### **Fallow Year**

wild millet (green foxtail)  
Persian darnel  
barnyard grass  
wild buckwheat  
cow cockle  
lamb's-quarters  
redroot pigweed  
Russian thistle

##### **Crop Year**

wild millet (green foxtail)<sup>x</sup>  
lamb's-quarters  
wild buckwheat<sup>†</sup>

#### **WEEDS SUPPRESSED**

Wild oats

<sup>x</sup>FBN Trifluralin 10% Herbicide will not control trifluralin tolerant green foxtail. See specific recommendations in Warning section of this label.

<sup>†</sup>Some wild buckwheat may escape the herbicidal action of FBN Trifluralin 10% Herbicide but its growth will be retarded and result in limited competition to the wheat.

**NOTE:** During the fallow year, susceptible weeds may not be fully controlled until after the second Fallowblend\* operation has established a uniform layer of soil treated with FBN Trifluralin 10% Herbicide. During the crop year FBN Trifluralin 10% Herbicide will provide commercially acceptable control of weeds as specified above.

**Table 3: Recommended Rates of FBN Trifluralin 10% Herbicide in the Brown Soil Zone  
(Summerfallow Application)**

Date of Application	Rates per Hectare	
	1-3% O.M.	4-8% O.M.
May	9.5 kg/ha	11.0 kg/ha
June	8.0 kg/ha	9.5 kg/ha
July	6.5 kg/ha	8.0 kg/ha

### **Land Preparation**

By reducing the number of fallow workings in a season, a greater trash cover is retained which reduces wind erosion and evaporation. The greatest reduction in the number of necessary fallow cultivations in a season may be obtained by applying FBN Trifluralin 10% Herbicide just prior to the first spring fallow working.

FBN Trifluralin 10% Herbicide may be applied to standing or preworked stubble, provided trash is not so heavy as to prevent soil mixing. FBN Trifluralin 10% Herbicide may be applied over top of moderate green growth (not affecting soil mixing). If green growth is heavy (interfering with soil mixing), destroy existing growth before application of FBN Trifluralin 10% Herbicide either by cultivation or with the application of a recommended herbicide.

### **Application**

Application of FBN Trifluralin 10% Herbicide to summerfallow fields will provide weed control during both years of the summerfallow-wheat rotation. Apply with a properly calibrated granular herbicide applicator that will apply FBN Trifluralin 10% Herbicide uniformly.

Calibrate the applicator according to manufacturer's directions and check frequently during application to ensure equipment is working properly. Avoid concentration of the material in narrow bands or strips. Apply FBN Trifluralin 10% Herbicide to soil surface and Fallowblend in the same operation if possible (see below for Fallowblend\* details). Ensure that large clods are broken. When applied as directed, FBN Trifluralin 10% Herbicide will not injure wheat grown in rotation after summerfallow; however, an over-application caused by overlapping, improper calibration or non-uniform application may result in reduced crop stand, delayed development or reduced yields.

### **Fallowblend Operations**

To Fallowblend, mix FBN Trifluralin 10% Herbicide into the soil in two different directions using a field cultivator, deep tillage cultivator or a disc implement operated at 8 to 10 km/hr. The first Fallowblend operation must be done within 24 hours of application and the second working should be done no sooner than one week after application.

Subsequent workings may be done whenever necessary to destroy resistant weed growth during the remainder of the fallow year. For the first two Fallowblend operations the equipment should be set to work 5 to 8 cm deep.

Subsequent workings should be no deeper than 8 cm.

After completing the two Fallowblend operations, additional operations with a rod weeder or shallow tillage may be required to control resistant weed growth and more uniformly blend FBN Trifluralin 10% Herbicide into the soil.

These additional cultivations should be as shallow as possible to minimize surface trash burial and evaporation.



- FBN Trifluralin 10% Herbicide should not be blended with a cultivator when the soil is crusted, lumpy or too wet for good mixing action.
- Blending with implements set to cut deeper than 8 cm may result in erratic weed control and crop injury.

### **Spring Tillage For Seedbed Preparation**

Seedbed preparation should be done using a field cultivator set to cut 5 cm deep (no deeper than the Fallowblend operation), when the soil is warm enough to promote good germination. Avoid transplanting weed seedlings; seed into a weed-free seedbed using a double disc drill or hoe drill set to seed 3 to 6 cm deep.

If a discer or air seeder is used for seeding, separate spring tillage may not be necessary. The discer or air seeder should be set to place seed 3 to 6 cm deep and the seedbed should be firmly packed or harrowed after seeding to promote good germination.

### **Seeding**

To reduce the risk of **wheat** injury, use quality seed and agronomic practices which will promote good growing conditions - avoid deep seeding, loose seedbeds and seeding into cold soils.

When seeding **semi-dwarf wheat**, special care should be taken to ensure shallow seeding. Check local recommendations for proper seeding depth.

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, FBN Trifluralin 10% Herbicide is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to FBN Trifluralin 10% Herbicide 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 FBN Trifluralin 10% Herbicide or other Group 3 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.

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- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- 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 Farmer's Business Network Canada, Inc. at 1-844-200-FARM (3276).

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

<sup>1</sup>Triflurex is a registered trademark of Makhteshim-Agam of North America Inc.

<sup>2</sup>Rival is a registered trademark of Nufarm Agriculture Inc.

<sup>3</sup>Fortress is a registered trademark of Gowan Company LLC

\*Fallowblend is a registered trademark of Dow AgroSciences LLC.

\*\*Heritage is a registered trademark of Dow AgroSciences LLC.

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