

# Bifecta™

## Herbicide Tank Mix

- **TriCor® 75 DF Herbicide (PCP No 30661)**
- **Valtera™ Herbicide (PCP No 29230)**



**Nufarm**

Grow a better tomorrow.

## TriCor<sup>®</sup> 75 DF Herbicide

Herbicide

Dry Flowable

For control of certain grasses and broadleaf weeds

AGRICULTURAL

GUARANTEE: Metribuzin..... 75 %

Contains the allergen sulfites

READ THE LABEL BEFORE USING

**KEEP OUT OF REACH OF CHILDREN**

CAUTION

<skull and crossbones in inverted triangle>>

POISON

REGISTRATION NO. 30661

PEST CONTROL PRODUCTS ACT

NET CONTENTS: 56 g - 454 kg

United Phosphorus, Inc.  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406, USA

1-800-438-6071

## **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. The user assumes the risk to persons or property that arises from any such use of this product.

## **FIRST AID**

**IN CASE OF POISONING** Contact a physician or a poison control centre **IMMEDIATELY**.

**IF SWALLOWED** Call a poison control centre or doctor immediately for treatment advice. Have a 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/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 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.

**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.

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

## **TOXICOLOGICAL INFORMATION**

**TO PHYSICIAN:** No specific antidote is available. Treat the patient symptomatically.

**SYMPTOMS OF POISONING:** The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by breathing difficulties and sedation.

**FOR CHEMICAL EMERGENCY: spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300**

## **PRECAUTIONS**

- **KEEP OUT OF REACH OF CHILDREN.**
- Harmful if swallowed, inhaled or absorbed through skin.
- Avoid contact with skin, eyes, or clothing.
- Avoid breathing dust or spray mist.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Wash contaminated clothing with soap and hot water before re-use.
- Wash skin thoroughly with soap and warm water after handling.
- Do not contaminate any body of water.
- Do not contaminate food or feed.
- Read and follow label instructions and directives.

**Applicators and other handlers must wear during mixing/loading, clean-up and repair activities:**

- Long-sleeved shirt and long pants;
- Chemical-resistant gloves;
- Goggles or face shield;
- Shoes plus socks.

**NOTE:**

- Users should remove personal protective equipment immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE) or use detergent and hot water. Keep and wash PPE separately from other laundry.

**STORAGE**

Do not store near food, feed, seed or fertilizer. Keep container tightly closed when not in use. Store in a cool, dry place

**DISPOSAL**

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.

**For Non-Recyclable Container**

5. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
6. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
7. Make the empty container unsuitable for further use.
8. Dispose of the container in accordance with provincial requirements.

**For Recyclable Container**

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:

3. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
4. 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.

**For Refillable Container (Accubin):**

**GENERAL INFORMATION:** The NET CONTENTS of this container is actually greater than 227/454 kg. The unit will only dispense up to the purchase quantity of 227/454 kg, leaving a small amount in the container. This amount is necessary to ensure accurate metering of purchased product down to the last kilogram.

This container and all attached or associated equipment are the property of United Phosphorus, Inc. 630 Freedom Business Center, Suite 402, King of Prussia, PA 19406, USA. This unit is designed for recycle and refill. Your cooperation in this reusable packaging program will contribute to a cleaner environment and assure that this convenient packaging continues to be available.

1. After use, return the container to the point of purchase or designated locations.
2. This container must only be refilled with TriCor 75 DF Herbicide.
3. Do not reuse container for other purposes.
4. Prior to refilling inspect thoroughly for damage.
5. Check for leaks after refilling and before transportation.
6. Do not refill or transport damaged or leaking containers.
7. If the container is not being refilled, return to the point of purchase.

#### **ENVIRONMENTAL HAZARDS**

- Do not use treated vines or crops for food, feed, or forage unless they are specified on this label. Use only according to label direction.
- Do not apply when weather conditions favour drift from areas treated. Do not allow sprays to drift on to adjacent desirable plants.
- Do not contaminate water when disposing of equipment wash waters.
- Do not apply directly to water, or to areas where surface water is present.
- The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or the depth to the water table is shallow.
- Following application and during rainfall events that cause runoff, these chemicals may reach surface water bodies including streams and reservoirs.
- To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g., soils that are compacted, fine textured or low in organic matter such as clay). Avoid application of this product when heavy rain is forecast.
- Do not exceed rates recommended on this label. Uneven application such as swath overlapping, variable tractor speed, spraying on turns, etc., may result in crop injury and increase chances of injury to succeeding crops.
- After harvest, tillage practices that provide thorough mixing of the soil may be helpful in reducing the chance of injury to succeeding crops.
- This product is not to be used in combination with any other product except as specifically recommended on this label.

#### **SPRAYER CLEANUP**

Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops. Drain any remaining spray solution of TriCor 75 DF Herbicide 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.

#### **DIRECTIONS FOR USE**

##### **MIXING AND SPRAYING INSTRUCTIONS**

- It is essential that the sprayer be properly calibrated before making application.
- Spray Pressure - 150 to 275 kPa; for lentils, peas, and processing peas use 275 kPa only.
- Spray Volume - refer to appropriate crop section for water volume.

- Use screens no finer than 0.3 mm (50 mesh) in nozzle and in-line strainers (felt filters, or smaller screens will become clogged). A 16 mesh screen is recommended for the filter on the inlet side of the pump.
- Nozzle tips should be no finer than 6502, 8002 or TK 2.
- Do not use airblast or other high pressure spray equipment to apply TriCor 75 DF Herbicide.
- **VIGOROUS, CONTINUOUS AGITATION IS ESSENTIAL FOR PROPER MIXING THROUGHOUT FILLING AND SPRAYING OPERATIONS.** Return line agitation is not sufficient. Sparge tube, jet or mechanical agitation is required. Agitation should be sufficient to create a rippling or rolling action on the surface. A pump must be of sufficient capacity to provide adequate volume through the by-pass and/or jet agitation system to provide sufficient agitation even while the booms are operating.
- The sprayer should be checked frequently during application to be sure it is working properly and delivering a uniform spray pattern.
- Avoid over-laps that will increase dosages above those recommended.
- **DO NOT APPLY BY AIR.**

Before mixing TriCor 75 DF Herbicide and its labeled tank-mixtures, examine the spray equipment making sure it is completely clean and free of rust or corrosion. To ensure the equipment is free of any residues from previously used pesticides, flush lines with clean water or recommended detergents. Use an approved method for disposing of rinse water.

Refer to the other product label for pertinent recommendations regarding mixing procedures. The proper mixing sequence for TriCor 75 DF Herbicide and recommended tank-mixtures is as follows:

1. Fill the spray tank or nurse tank 1/4 full with water.
2. Start recirculation and agitation system and continue throughout mixing and application.
3. Add recommended amount of TriCor 75 DF Herbicide.
4. If tank-mixing with wettable powders or other dry flowable products refer to these product labels for specific mixing instructions.
5. Fill the spray tank with water to the desired level.
6. If tank-mixing with emulsifiable concentrates or soluble products, add these products near end of filling the spray tank.
7. Continue agitation during transport and application until the spray tank is empty.

TriCor 75 DF Herbicide and all registered mixtures should be kept agitated once mixed and then sprayed out immediately. Do not allow mixtures to stand for prolonged periods of time. Water quality, pH, temperature and/or other components of the mixture may affect how long the mixture can stand before application.

NOTE: If spraying and agitation is stopped before the spray tank is empty, the suspended material will settle to the bottom of the tank. When spraying must be interrupted, it is recommended to maintain agitation until spraying resumes. If agitation must be stopped before the spray tank is empty, follow these steps to resume spraying:

1. Remove main filter.
2. Mechanically mix spray solution (i.e., paddle) prior to restarting pump. Ensure that loose sediment is moved out to the sump area.
3. Start agitation on full.
4. Paddle corners of the tank.
5. Reinstall main filter.

At the end of each spray day, rinse out the tank and sprayer lines with water.

**RE-ENTRY INTERVAL**

Do not enter or allow re-entry into treated areas until 12 hours after application. Exception: If the product is soil injected or soil-incorporated, workers may enter the treated area if there will be no contact with anything that has been treated.

It is recommended that this product not be applied in a way that will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area during application.

**SPRAY DRIFT MANAGEMENT**

Field sprayer application: **DO NOT** apply during periods of dead calm or when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.

**BUFFER ZONES**

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, woodlots, hedgerows, pastures, rangelands, and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), and estuarine/marine habitats.

Crop	Method of Application	Buffer Zones (metres) Required for the Protection of:						Terrestrial Habitat
		Freshwater Habitats of Depths			Estuarine/Marine Habitats of Depths			
		Less than 1 m	1-3 m	Greater than 3 m	Less than 1 m	1-3 m	Greater than 3 m	
All crops except tomatoes	Field sprayer	5	2	1	5	2	1	10
	Field sprayer with shrouds	2	1	0	2	1	0	3
	Field sprayer with cones	4	1	1	4	1	1	5
Tomatoes	Field sprayer	10	3	1	5	2	1	15
	Field sprayer with shrouds	3	1	0	2	1	0	5
	Field sprayer with cones	5	2	1	4	1	1	10

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

## **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, TriCor 75 DF Herbicide is a Group 5 Herbicide. Any weed population may contain or develop plants naturally resistant to TriCor 75 DF Herbicide and other Group 5 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 TriCor 75 DF Herbicide or other Group 5 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.
- 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 the United Phosphorus, Inc. at 1-800-438-6071.



## **EASTERN CANADA USES**

### **CROP INFORMATION AND RESTRICTIONS**

TriCor 75 DF Herbicide provides selective weed control in:

<b>CANADA EAST</b>
<ul style="list-style-type: none"><li>• Soybeans</li><li>• Potatoes</li><li>• Field Corn</li><li>• Tomatoes</li><li>• Asparagus (Established)</li><li>• Sweet White Lupins</li><li>• Processing Carrots</li><li>• Fruit trees (newly planted, established)</li></ul>



TriCor 75 DF Herbicide may injure rotational crops:

- Rotation crops such as onions, celery, peppers, cole crops, lettuce and spinach, sugar beets, table beets and turnips, pumpkin and squash, cucumbers and melons, tobacco, and non-triazine tolerant canola (rapeseed) are sensitive to TriCor 75 DF Herbicide and may be injured if planted in soil treated with TriCor 75 DF Herbicide during the year of application or the following crop year.
- Fall seeded or cover crops such as wheat, oats, and rye may be injured when seeded within the same season as the application of TriCor 75 DF Herbicide.

### **WEEDS CONTROLLED**

NOTE: TriCor 75 DF Herbicide DOES NOT CONTROL TRIAZINE RESISTANT WEED BIOTYPES

#### **GRASS WEEDS**

Barnyard grass  
Green foxtail  
Cheat grass  
Johnson grass (seedling)  
Crab grass  
Witch grass  
Fall panicum  
Yellow foxtail  
Giant foxtail

#### **BROADLEAF WEEDS**

Carpetweed<sup>1</sup>  
Prickly mallow<sup>1</sup>  
Cocklebur  
Prostrate pigweed  
Common chickweed  
Redroot pigweed  
Common ragweed  
Russian thistle  
Corn spurry<sup>3</sup>  
Shepherd's purse

Dandelion (seedling)  
Stinkweed<sup>2</sup>  
Green smartweed  
Velvetleaf  
Hempnettle<sup>3</sup>  
Wild buckwheat<sup>2</sup>  
Jimsonweed<sup>1</sup>  
Wild mustard  
Lady's-thumb  
Wild potato vine  
Lamb's-quarter  
Yellow woodsorrel<sup>1</sup>

<sup>1</sup>PREEMERGENCE only

<sup>2</sup>POSTEMERGENCE only

<sup>3</sup>Suppression with multiple postemergence applications of 200 g/ha.

WEEDS CONTROLLED (CANADA EAST) in Field Corn with TriCor 75 DF Herbicide in tankmixture with the herbicide Primextra II Magnum

#### **GRASS WEEDS**

Barnyard grass  
Fall panicum  
Giant foxtail  
Green foxtail  
Hairy crabgrass  
Old witchgrass  
Smooth crabgrass  
Yellow foxtail

#### **BROADLEAF WEEDS**

American nightshade  
Lady's-thumb  
Lamb's-quarter  
Mustard  
Purslane  
Ragweed  
Redroot pigweed  
Smartweed  
Velvetleaf  
Wild buckwheat

#### **SOIL TYPES AND RESTRICTIONS**

The recommended use rates of TriCor 75 DF Herbicide are dependent upon soil texture and organic matter content of the soil being treated. Rate tables in this label refer to the following three soil texture groups: coarse, medium and fine. If you are not sure how to classify your soil, contact your UPI representative, Soils & Crops Advisor, or other knowledgeable person. The following chart includes a complete listing of soil textures included in each of the soil texture groupings:

<b>COARSE</b>	<b>MEDIUM</b>	<b>FINE</b>
Loamy sand Sandy loam	Loam Silt loam Silt Sandy clay loam Sandy clay	Silty clay loam Silty clay Clay loam Clay

- On variable soils with coarse sandy areas, some crop injury may occur on the sandy areas if the rate used is for the finer soil type.
- Sandy loam and silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions.
- Do not use this product on MUCK soils. If TriCor 75 DF Herbicide is applied to MUCK soils, subsequent crops may be injured.
- Do not use on coarse soils with less than 2% organic matter.

### **APPLICATION INFORMATION**

#### **PREPLANT SURFACE OR BURN-DOWN:**

- In conservation tillage, minimum-tillage, ridge-tillage, strip-tillage, or no-tillage crop production systems.
- TriCor 75 DF Herbicide alone or in combination with recommended tank-mixes may be applied as a broadcast spray up to 30 days before planting.
- If possible, do not move treated soil out of the row or move untreated soil to the soil surface during planting, as weed control may be reduced.
- Rainfall and/or overhead sprinkler irrigation is necessary to move TriCor 75 DF Herbicide into the upper soil surface where weed seeds germinate.

#### **PREPLANT INCORPORATION:**

- Refer to the tank-mix partner label for proper incorporation instructions.
- Avoid deep incorporation since reduced weed control and/or crop injury may result.
- Incorporate with implements which provide uniform, shallow incorporation (example: finishing disk, harrow, rolling cultivator, etc.).
- a single incorporation is satisfactory, however a second incorporation will generally improve herbicide soil blending and improves weed control (particularly on coarse soils).

#### **PREEMERGENCE APPLICATION:**

- TriCor 75 DF Herbicide alone, or in the recommended tank-mixes, may be applied to the soil surface as a broadcast spray after planting of the crop, but prior to weed or crop emergence.
- Preemergence application may be made in all tillage systems (conventional, conservation, minimum, ridge, etc.).
- Rainfall and/or overhead sprinkler irrigation is necessary to move TriCor 75 DF Herbicide into the upper soil surface where weed seeds germinate.
- If adequate moisture is not received within 7 to 10 days after application and weeds begin to emerge from the soil, a light rotary hoeing or shallow incorporation (no deeper than 1.25 cm deep) will improve performance, minimize crop damage, activate chemical and prevent soil crusting.
- Dry weather conditions as well as excessive rainfall or irrigation following application may reduce weed control.
- Do not apply heavy irrigation immediately after application.

**EARLY POSTEMERGENCE APPLICATION:**

- Do not tank-mix with liquid fertilizers, oils, oil concentrates, or surfactants when applying postemergence because severe crop injury may occur.
- Do not harvest within 60 days of postemergence application unless otherwise indicated.
- Thorough spray coverage on weed foliage is essential for adequate control with postemergent applications.

**SPLIT APPLICATION (POTATOES ONLY):**

- If a split application is desired, the chemical may be applied preemergence and postemergence. Avoid soil incorporation.
- Do not apply more than 1.5 kg/ha total per growing season.
- Do not harvest within 60 days of postemergence application unless otherwise indicated.

**BAND APPLICATION:**

- If a band application is desired, the chemical may be applied preemergence and postemergence as described above by using proportionally less TriCor 75 DF Herbicide per hectare:

$$\frac{\text{Band width in centimetres}}{\text{Row width in centimetres}} \times \text{Broadcast rate/ha} = \text{Band rate/ha}$$

- Weeds between treated bands should be removed by cultivating, as needed, using protective fenders to keep freshly turned soil off treated bands.

**SOYBEANS - EASTERN CANADA**

- Apply specified dosage as preemergence broadcast spray in 150 to 300 L of water per hectare and as preplant incorporated in at least 100 L of water per hectare.
- Applications of TriCor 75 DF Herbicide made at rates above those recommended may result in burning, yellowing or stunting of the crop. If heavy rains occur soon after application, plant injury may result, especially in poorly drained areas where water may stand for several days. Soybean seeds must be planted at least 4 cm below the soil surface.
- VARIETIES: Do not use TriCor 75 DF Herbicide on AC Brant, Apache, Baron, Eramosa, Maple Amber, Maple Ridge, IA 1003 or S-240. Consult your UPI representative, chemical dealer, or your seed supplier for information on the tolerance of soybean varieties, prior to TriCor 75 DF Herbicide use.
- DO NOT USE TriCor 75 DF Herbicide ON SANDY SOILS OR ON COARSE SOILS WITH LESS THAN 2% ORGANIC MATTER.
- Do not apply more than once per season regardless of method of application.

**TriCor 75 DF Herbicide Alone: Preemergence Application<sup>1</sup>**

SOIL TYPES	Rates per hectare and organic matter		
	Less than 2%	2 to 4%	Over 4%
COARSE	DO NOT USE	550 g	750 g
MEDIUM	750 g	925 g	1.1 kg
FINE	1.1 kg	1.25 kg	1.5 kg

1. REMARKS FOR NO or MINIMUM TILLAGE: DO NOT USE TRICOR 75 DF Herbicide on coarse soils. Under adverse conditions (drought), the following additives may be applied with the recommended treatments: crop oil concentrate (Assist) at 1% v/v or non-ionic surfactant at 0.1% v/v.

### TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label. Unless prohibited on this or other product labels, apply as a broadcast or band application.

#### TriCor 75 DF Herbicide Tank-Mixes: Preplant Incorporated

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide <sup>1</sup>	550 g	750 g	750 g
	plus Treflan E.C. (480 g/L)	1.2 L	1.7 L	2.4 L
Above plus yellow nutsedge	TriCor 75 DF Herbicide <sup>1</sup>	550 g	750 g	750 g
	plus Dual Magnum	1.15 - 1.75 L	1.15 - 1.75 L	1.15 - 1.75 L
	or Dual II Magnum	1.15 - 1.75 L	1.15 - 1.75 L	1.15 - 1.75 L
	TriCor 75 DF Herbicide plus Frontier <sup>2</sup>	550 g	750 g	750 g
		1.25 - 1.4 L	1.25 - 1.4 L	1.25 - 1.4 L
Annual grasses and non-triazine resistant annual broadleaf weeds	TriCor 75 DF Herbicide plus Axiom DF <sup>3</sup>	0.5 kg	0.65 kg	0.83 kg
		0.84 kg	1.12 kg	1.26 kg

1. On heavy Brookston Clay soils, the TriCor 75 DF Herbicide rate should be increased to a maximum rate of 1.1 kg/ha for season long control.
2. The lower rate of Frontier Herbicide provides suppression only for yellow nutsedge.
3. Tank-mixtures with Axiom DF can be applied up to 7 days before planting.

#### TriCor 75 DF Herbicide Preemergence

##### Following Preplant Incorporated Applications of Other Herbicides

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual grasses and broadleaf weeds	Treflan E.C. (480 g/L)	1.2 L	1.7 L	2.4 L
	followed by TriCor 75 DF Herbicide <sup>1</sup>	550 - 750 g	750 - 1100 g	1.1 - 1.5 kg
Above plus yellow nutsedge	Dual Magnum	1.15 - 1.75 L	1.15 - 1.75 L	1.15 - 1.75 L
	or Dual II Magnum	1.15 - 1.75 L	1.15 - 1.75 L	1.15 - 1.75 L
	followed by TriCor 75 DF Herbicide <sup>1</sup>	550 - 750 g	750 - 1100 g	1.1 - 1.5 kg

1. The rate of TriCor 75 DF Herbicide depends on soil organic matter levels. See rates for TriCor 75 DF Herbicide alone. When broadleaf weed populations are low, rates of TriCor 75 DF Herbicide may be reduced by 25%.

**TriCor 75 DF Herbicide Alone or in Tank-Mixes (No or Minimum Tillage Systems):  
Preplant Surface (up to 30 days before planting) or Burndown Application**

Weeds controlled	Products <sup>1</sup>	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual weeds less than 4 cm in height and residual control of annual weeds <sup>3</sup>	TriCor 75 DF Herbicide <sup>2</sup>	Do not use	0.75 - 1.1 kg	1.1 - 1.5 kg
Above including grasses	TRICOR 75 DF Herbicide plus Pursuit (240 g a.e./L)	Do not use	0.53 - 1.0 kg 312 - 420 mL	0.64 - 1.3 kg 312 - 420 mL
For improved burndown of above including control of annual weeds taller than 4 cm and emerged perennial weeds	One of the above treatments plus Roundup Original 360 Liquid <sup>4</sup> or Roundup Transorb MAX Liquid <sup>4</sup> or Glyphos AU Soluble Concentrate <sup>4</sup>			
			1.25 L	1.25 L
			1.25 L	1.25 L
		Do not use	1.25 L	1.25 L
Annual grasses and non-triazine resistant annual broadleaf weeds <sup>5</sup>	TriCor 75 DF Herbicide plus Axiom DF <sup>6</sup>		0.65 kg	0.83 kg
		Do not use	1.12 kg	1.26 kg
Annual grasses and annual broadleaf weeds including triazine resistant weeds <sup>5</sup>	TriCor 75 DF Herbicide plus Axiom DF <sup>6</sup> plus Lorox DF		0.6 kg	0.65 kg
			1.12 kg	1.26 kg
		Do not use	1.7 kg	2.0 kg
For burndown of above including control of weeds taller than 4 cm and perennial weeds	One of the above 2 treatments plus Roundup Original 360 Liquid <sup>4</sup> or Roundup Transorb MAX Liquid <sup>4</sup>		2.5 L	2.5 L
		Do not use	2.5 L	2.5 L
Emerged annual and perennial weeds and residual control of annual weeds including spreading atriplex, up to the 10 leaf stage	TriCor 75 DF Herbicide <sup>8</sup> plus Roundup Original 360 Liquid <sup>4</sup> Roundup Transorb MAX Liquid <sup>4</sup> or Touchdown 480 <sup>4</sup> or Touchdown iQ <sup>4</sup> or Glyphos AU Soluble Concentrate <sup>4</sup> or Credit Liquid <sup>4</sup> or Vantage <sup>4</sup> or Vantage Plus <sup>4</sup>		0.75 - 1.1 kg	1.1-1.5 kg
			2.35-2.5 L	2.35-2.5 L
			2.35-2.5 L	2.35-2.5 L
			2.6-2.7 L	2.6-2.7 L
			2.35-2.5 L	2.35-2.5 L
			2.35-2.5 L	2.35-2.5 L
			2.35-2.5 L	2.35-2.5 L
			2.35-2.5 L	2.35-2.5 L
		Do not use	2.35-2.5 L	2.35-2.5 L

	or Renegade HC Liquid <sup>4</sup> or Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide <sup>4</sup>		2.35-2.5 L  1.67 L	2.35-2.5 L  1.67 L
Annual weeds less than 4 cm in height and residual control of annual weeds <sup>7</sup>	TriCor 75 DF Herbicide plus Dual Magnum  or Dual II Magnum	0.67 - 0.75 kg 1.15-1.75 L  1.15-1.75 L	0.75 - 1.1 kg 1.15-1.75 L  1.15-1.75 L	1.1 - 1.5 kg 1.15-1.75 L  1.15-1.75 L
Annual grasses and broadleaf weeds, including emerged annual or perennial weeds	Above treatment plus Roundup Original 360 Liquid <sup>4</sup> or Roundup Transorb MAX Liquid <sup>4</sup>  or Touchdown 480 <sup>4</sup>  or Touchdown iQ <sup>4</sup> or Glyphos AU Soluble Concentrate <sup>4</sup> or Credit Liquid <sup>4</sup> or Vantage <sup>4</sup> or Vantage Plus <sup>4</sup> or Renegade HC Liquid <sup>4</sup>		2.35-2.5 L  2.35-2.5 L  2.6-2.7 L  2.35-2.5 L  2.35-2.5 L 2.35-2.5 L 2.35-2.5 L 2.35-2.5 L	

- Under adverse conditions (drought), and for improved burndown of small emerged annual weeds, the following additives may be applied with the recommended treatments:
  - crop oil concentrate (Assist) at 1% v/v
  - non-ionic surfactant at 0.1% v/v
  - crop oil, 28-0-0, or 10-34-0 at 5% v/v (only for tank mixtures with the Herbicides Dual Magnum or Dual II Magnum +/- *glyphosate* Herbicide)
- For improved burndown of small weeds less than 4 cm in height, Gramoxone Liquid Herbicide with Wetting Agent can be added at a rate of 2.5 L/ha.
- Use the higher rate for the control of grass weeds or when broadleaf weeds are dense.
- Some perennial weeds, such as quackgrass, may not be controlled with these rates of Roundup, Touchdown, Glyphos, Credit, Vantage or Renegade. Consult the Roundup, Touchdown, Glyphos, Credit, Vantage or Renegade Herbicide labels regarding perennial weeds controlled.
- If weeds are present at the time of application, apply this tank mixture with Roundup Herbicide.
- Tank-mixtures with Axiom DF can be applied up to 7 days before planting.
- Use the higher rates when weeds are dense and/or soils with high organic matter (over 4%) and at the heavy end of the soil texture class.
- Consult Table entitled "TriCor 75 DF Herbicide alone: Pre-emergence Application" for specific rates based on soil types and organic matter.

**TriCor 75 DF Herbicide Tank Mixes:  
Preemergence Applications for all tillage systems unless specified otherwise**

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual grasses and broadleaf weeds	Conventional Tillage TriCor 75 DF Herbicide <sup>2,3,5</sup> plus Dual Magnum <sup>6</sup> or Dual II Magnum <sup>6</sup>	550 - 750 g 1.15 - 1.75 L 1.15 - 1.75 L	750 - 1100 g 1.15 - 1.75 L 1.15 - 1.75 L	1.1 - 1.5 kg 1.15 - 1.75 L 1.15 - 1.75 L
	No or Min. Tillage TriCor 75 DF Herbicide <sup>1,2,3,5</sup> plus Dual Magnum <sup>6</sup> or Dual II Magnum <sup>6</sup>	550 g 1.15 - 1.75 L 1.15 - 1.75 L	750 - 1100 g 1.15 - 1.75 L 1.15 - 1.75 L	1.1 - 1.5 kg 1.15 - 1.75 L 1.15 - 1.75 L
	TriCor 75 DF Herbicide plus Axiom DF <sup>4</sup>	500 g 840 g	650 g 1120 g	830 g 1260 g
	TriCor 75 DF Herbicide plus Frontier	550 g 1.1 - 1.25 L	670 g 1.1 - 1.4 L	750 g 1.1 - 1.4 L
Above weeds plus partial control of eastern black nightshade and Proso millet	Conventional Tillage TriCor 75 DF Herbicide <sup>2</sup> plus Pursuit  (240 g a.e./L)	550 - 750 g 312 - 420 mL	750 - 1100 g 312 - 420 mL	1.1 - 1.5 kg 312 - 420 mL
	No or Min. Tillage TriCor 75 DF Herbicide <sup>1,5</sup>  plus Pursuit  (240 g a.e./L)	Do Not Use	0.53 - 1.0 kg  312 - 420 mL	0.64 - 1.33 kg  312 - 420 mL
Annual grasses and broadleaf weeds including triazine resistant broadleaf species and nightshade (Eastern black, American) <sup>6</sup>	TriCor 75 DF Herbicide plus Lorox DF plus Axiom DF <sup>4</sup>	500 g 1.4 kg 840 g	600 g 1.7 kg 1120 g	650 g 2.0 kg 1260 g
	TriCor 75 DF Herbicide plus Lorox DF plus Frontier	Do Not Use	480 - 670 g 1.4 - 1.7 kg 1.1 - 1.4 L	670 - 750 g 1.7 - 2.0 kg 1.1 - 1.4 L
For improved burndown of above including control of weeds taller than 4 cm and emerged perennials.	One of the above treatments in No or Min. Tillage plus Roundup Original 360 Liquid <sup>7,8</sup> or Roundup Transorb MAX Liquid <sup>7,8</sup> or Glyphos AU Soluble Concentrate <sup>7,8</sup>	Do not use	1.25 L 1.25 L 1.25 L	1.25 L 1.25 L 1.25 L
	No or Min. Tillage TriCor 75 DF Herbicide plus Lorox DF	Do not use	600 g 1.7 kg	650 g 2.0 kg



	plus Axiom DF plus Roundup Original 360 Liquid <sup>8</sup> or Roundup Transorb MAX Liquid <sup>8</sup>		1120 g 2.5 L 2.5 L	1260 g 2.5 L 2.5 L
Annual grasses and broadleaf weeds including nightshade, emerged annual or perennial weeds	No or Min. Tillage TriCor 75 DF Herbicide <sup>1,2,3,5</sup> plus Dual Magnum or Dual II Magnum plus Roundup Original 360 Liquid <sup>8</sup> or Roundup Transorb MAX Liquid <sup>8</sup>	550 g 1.15 – 1.75 L 1.15 – 1.75 L	750 - 1100 g 1.15 – 1.75 L 1.15 – 1.75 L	1.1 - 1.5 kg 1.15 – 1.75 L 1.15 – 1.75 L
	or Touchdown 480 <sup>8</sup>		2.35-2.5 L 2.35-2.5 L	
	or Touchdown iQ <sup>8</sup> or Glyphos AU Soluble Condensate <sup>8</sup> or Credit Liquid <sup>8</sup> or Vantage <sup>8</sup> or Vantage Plus <sup>8</sup> or Renegade HC Liquid <sup>8</sup>		2.6-2.7 L 2.35-2.5 L 2.35-2.5 L 2.35-2.5 L 2.35-2.5 L 2.35-2.5 L 2.35-2.5 L	
For improved burndown of annual grasses and broadleaf weed less than 4 cm in height	No or Min. Tillage TriCor 75 DF Herbicide <sup>1,2</sup> plus Gramoxone Liquid Herbicide with Wetting Agent <sup>9</sup>	Do not use	750 - 1100 g 2.5 L	1.1 - 1.5 kg 2.5 L

- In NO or MINIMUM TILLAGE, under adverse conditions (drought), and for improved burndown of small emerged annual weeds, the following additives may be applied with the recommended treatments:
  - crop oil concentrate (Assist) at 1% v/v
  - non-ionic surfactant at 0.1% v/v
  - crop oil, 28-0-0, or 10-34-0 at 5% v/v (only for tank mixtures with the Herbicides Dual Magnum or Dual II Magnum +/- *glyphosate* Herbicide)
- The rate of TriCor 75 DF Herbicide depends on soil organic matter levels. See rates for TriCor 75 DF Herbicide alone.
- When broadleaf weed populations are low, rates of TriCor 75 DF Herbicide may be reduced by 25%.
- In NO or MINIMUM TILLAGE, DO NOT USE this tank-mixture on coarse soils.
- Use the higher rate when weeds are dense and/or soils with high organic matter (over 4%) and at the heavy end of the soil texture class.
- Including nightshade: Eastern black nightshade and American nightshade are controlled with tank-mixture including Dual Magnum or Dual II Magnum only.
- Except tank-mixtures that include Axiom DF Herbicide or Frontier Herbicide.
- Some perennial weeds, such as quackgrass, may not be controlled with these rates of Roundup, Touchdown, Glyphos, Credit, Vantage or Renegade. Consult the Roundup,

Touchdown, Glyphos, Credit, Vantage or Renegade Herbicide labels regarding perennial weeds controlled.

9. Apply this tank-mixture after planting, but no later than 3 days prior to crop emergence.

## POTATOES

### EASTERN CANADA, COASTAL BRITISH COLUMBIA, AND UNDER IRRIGATED CONDITIONS IN ALBERTA

- Apply specified dosage in 100 to 300 L of water per hectare, depending on equipment and local practices.
- Do not use on the varieties Belleisle or Tobique.
- Consult your chemical dealer or your seed supplier for information on the tolerance of newly released potato varieties, prior to TriCor 75 DF Herbicide use.
- Do not harvest within 60 days of application.
- If a hilling is done before emergence, allow time for the soil to settle or crust before application. This will help reduce loose treated soil from moving off the hill to the bottom of the trench and leaving untreated areas on the side of the hills. For best results it is also recommended that hilling following application be delayed as long as possible before foliage fills in the rows. Supplemental row cultivation on potatoes may also be helpful to improve weed control.
- The higher rates are recommended for longer season potatoes or where longer control is required and where weed infestations are heavy.

### TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label. Unless prohibited on this or other product labels, apply as a broadcast or band application.

#### TriCor 75 DF Herbicide Alone or in Tank-Mixes: Preemergence Applications<sup>1</sup>

Weeds Controlled	Products	Rates per Hectare
Annual grasses and broadleaf weeds. Suppression of quackgrass and yellow nutsedge at high rate	TriCor 75 DF Herbicide	550-1500 g
Above including grasses	TriCor 75 DF Herbicide plus Dual Magnum <sup>2</sup> or Dual II Magnum <sup>2</sup>	750 - 1500 g 1.25 - 1.75 L 1.25 - 1.75 L
Above including weeds more than 4 cm tall and quackgrass	TriCor 75 DF Herbicide plus Gramoxone Liquid Herbicide with Wetting Agent	750 - 1100 g 2.75 L

1. Apply immediately after planting or after hilling. Avoid soil incorporation. If a hilling is done before emergence, allow time for the soil to settle or crust before application. This will help reduce loose treated soil from moving off the hill to the bottom of the trench and leaving untreated areas on the sides of the hills. For best results it is also recommended that hilling following application be delayed as long as possible before foliage fills the rows.
2. Do not use tank-mixes with Dual Magnum or Dual II Magnum on the variety Superior or on sandy or coarse textured soils low in organic matter. Do not apply tank-mixes with Dual Magnum or Dual II Magnum at ground crack or if potatoes have emerged. Do not

use tank-mixes with Dual Magnum or Dual II Magnum on muck, peat or high organic matter soils.

**TriCor 75 DF Herbicide Alone or in Tank-Mixes: Early Postemergence<sup>1</sup>**

Weeds Controlled	Products	Rates per Hectare
Annual grasses and broadleaf weeds <sup>2</sup>	TriCor 75 DF Herbicide	550 - 1500 g
Annual grasses <sup>4</sup> including Volunteer corn, persian darnel, Volunteer spring wheat and barley, Wild oats, Wild proso millet, Quack grass <sup>5</sup> , Wirestem Muhly	TriCor 75 DF Herbicide plus Venture L <sup>3</sup>	550 g 0.6 - 2.0 L <sup>6</sup>
Annual grasses and broadleaf weeds <sup>7</sup>	TriCor 75 DF Herbicide plus Prism <sup>®</sup> SG Herbicide <sup>8</sup>	280-375 g 60 g

1. Apply specified dosage per hectare as a broadcast postemergence spray over the tops of potatoes when they are less than 10 cm high. Do not use postemergence treatments on Atlantic, Eramosa, Shepody, red-skinned or any early maturing varieties. Temporary yellowing or leaf burn may occur, especially if crop is under stress from poor growing conditions such as periods of cool, wet, and cloudy weather. Avoid postemergence application under these conditions.
2. Spray before weeds are 4 cm high. Use high rates for grasses or dense broadleaf weeds.
3. Do not harvest within 90 days of application.
4. Apply to actively growing annual grasses at the full 2-leaf to 5-leaf stages. For green and yellow foxtail, apply at full 2-leaf to 4-leaf stage.
5. Apply to actively growing plants that have 3 to 5 fully developed leaves.
6. Refer to Venture L Herbicide label for weed/rate chart.
7. Spray before broadleaf weeds are 4 cm high and when annual grasses are 1 to 6 leaf stage (up to early tillering – two 2-leaf tillers).
8. Prism Herbicide must be applied with a recommended non-ionic surfactant, i.e. Citowett Plus, Agral 90 or Agsurf at 2 L per 1000 L of spray solution (0.2% v/v).
9. The application rate of TriCor 75 DF Herbicide at 375 g per hectare should be used under conditions of heavy weed infestation.

**TriCor 75 DF Herbicide Preemergence or Early Postemergence<sup>1</sup> Following Preplant Incorporated Application of Other Herbicides or TriCor 75 DF Herbicide Tank-Mixes  
Preplant Incorporated**

Weeds Controlled	Products	Rates per Hectare
Annual grasses and broadleaf weeds (less than 4 cm in height) including yellow nutsedge	TriCor 75 DF Herbicide plus Dual Magnum <sup>2</sup> or Dual II Magnum <sup>2</sup>	750 - 1500 g 1.25 - 1.75 L 1.25 - 1.75 L
Heavy infestation of barnyard grass, annual grasses, and broadleaf weeds (less than 4 cm in height)	TriCor 75 DF Herbicide plus Eptam 8-E	750 - 1100 g 4.25 - 5.5 L

1. Apply specified dosage per hectare as a broadcast postemergence spray over the tops of potatoes when they are less than 10 cm high. Do not use postemergence treatments on Atlantic, Eramosa, Shepody, red-skinned or any early maturing varieties.
2. Do not use tank-mixes with Dual Magnum or Dual II Magnum on the variety Superior or on sandy or coarse textured soils low in organic matter. Do not apply tank-mixes with Dual Magnum or Dual II Magnum at ground crack or if potatoes have emerged. Do not use tank-mixes with Dual Magnum or Dual II Magnum on muck, peat or high organic matter soils.

**TRICOR 75 DF Herbicide Alone in Split Applications (Preemergence or early Postemergence<sup>1</sup>)**

Weeds Controlled	Products	Rates per Hectare
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide	No more than 1.5 kg per growing season

1. Apply specified dosage per hectare as a broadcast postemergence spray over the tops of potatoes when they are less than 10 cm high. Do not use postemergence treatments on Atlantic, Eramosa, Shepody, red-skinned or any early maturing varieties.

**TRICOR 75 DF Herbicide Applied Alone (Preemergence) followed by a Tankmix Application with Prism SG Herbicide (early Postemergence)**

For control of annual grasses and broadleaf weeds, apply a preemergence application of TriCor 75 DF Herbicide at 550 - 1125 g/ha. Apply immediately after planting or after hilling. Avoid soil incorporation. If a hilling is done before emergence, allow time for the soil to settle or crust before application. This will help reduce loose treated soil from moving off the hill to the bottom of the trench and leaving untreated areas on the sides of the hills. For best results it is also recommended that hilling following application be delayed as long as possible before foliage fills the rows. Use the high rate for suppression of quackgrass and yellow nutsedge.

Follow with an early postemergence application of 280-375 g/ha of TriCor 75 DF Herbicide plus 60 g/ha of Prism SG Herbicide. Spray before broadleaf weeds are 4 cm high and when annual grasses are 1 to 6 leaf stage (up to early tillering – two 2-leaf tillers).

Do not apply more than 1.5 kg/ha per growing season.

**FIELD CORN - EASTERN CANADA**

TriCor 75 DF Herbicide can be used as a 2 way tank-mix with Primextra II Magnum Herbicide. Apply specified dosage as preemergence broadcast spray in 150 to 300 L of water per hectare. Do not use on Sweet Corn or Seed Corn. These tank-mix Herbicide treatments control certain grass and broadleaf weeds, especially velvetleaf. Corn seeds must be planted at least 4 cm below the soil surface. Do not apply after corn has emerged. Some corn varieties are sensitive to TriCor 75 DF Herbicide. Use TriCor 75 DF Herbicide on the following varieties only:

<b>Pioneer</b>		<b>Hyland</b>	<b>Asgrow</b>	<b>Cargill</b>	<b>Garst</b>
3737	3803	LG2350	RX578	4587	8882
3925	3902	LG2461		5157	8808
3906	3790	HL2803			<b>Funk's</b>
3744	3772	HL2570			G4309
3732	3475				G4299
<b>COOP</b>	<b>NK</b>	<b>DeKalb</b>	<b>Ferguson</b>	<b>Golden Harvest</b>	
6356	PX9214	DK-485	8758	H-2410	
	N4350	DK-535	8868		
<b>Agri</b>	<b>Pickseed</b>	<b>First Line</b>	<b>Cardinal</b>	<b>Renk</b>	
501	5577	1783	MX285	R148	

**TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES**

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label. Unless prohibited on this or other product labels, apply as a broadcast or band application.

### TriCor 75 DF Herbicide Tank-Mixes: Preemergence Application

Weeds Controlled	Products	Rates per Hectare <sup>2</sup>
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide <sup>1</sup> plus Primextra II Magnum	400 - 675 g 2.6 L

1. The TriCor 75 DF Herbicide 675 g/ha rate should be used if a heavy weed infestation is expected.
2. Do not apply to sandy soils or light soils. Apply only to medium or fine soils.

### TRANSPLANTED TOMATOES (GROWN FOR PROCESSING ONLY) - EASTERN CANADA

- Apply specified dosage in 150 to 300 L of water per hectare, depending on equipment and local practices.
- Do not apply to direct seeded tomatoes.
- Do not apply more than a total of 1.0 kg/ha of TriCor 75 DF Herbicide to COARSE SOILS, 1.5 kg/ha to MEDIUM SOILS, or 1.8 kg/ha to FINE SOILS per crop season.
- Do not apply the above mentioned total amounts of TriCor 75 DF Herbicide for each soil type within a time span of less than 35 days.
- Allow at least 14 days between applications.
- Avoid application when tomatoes are under stress.
- Crop injury or delayed maturity may result from postemergence applications if tomatoes are growing under stress conditions such as periods of drought, flooding, or cool, wet or cloudy weather before application or at time of application. Stress can be expected if temperatures have been below 15°C or above 30°C. Three days of sunny weather should follow cloudy, cool weather before spraying TriCor 75 DF Herbicide postemergence.
- Varieties differ in tolerance to TriCor 75 DF Herbicide. Newly introduced varieties with unknown tolerance to TriCor 75 DF Herbicide should only be treated in a small test area to determine tolerance.

### TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label. Unless prohibited on this or other product labels, apply as a broadcast or band application.

### TriCor 75 DF Herbicide Alone: Postemergence Application

Crop	Rates per hectare	Remarks
Transplant Tomatoes (grown for processing only) for weeds less than 4 cm in height	Single Application 375 g to 1.1 kg	Avoid contacting at least the top 2/3 of the tomato foliage with spray. Best results are usually obtained when application is about 3 weeks after transplanting. Use the lower rate on sandy soils. At the lower rate the treatment may not provide acceptable control of grasses. Do not harvest within 60 days of application.

	Multiple Application 200 g	Reapply as new flushes of weeds emerge. Do not make more than 4 applications per season. The treatment may not provide acceptable control of grasses. Do not harvest within 30 days of application. On sunny days application should be made in the afternoon or early evening.
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NOTE FOR MULTIPLE APPLICATION ONLY: The fungicide Bravo 500 at the rate of 2.4 to 4.8 L/ha can be tank-mixed with TRICOR 75 DF Herbicide following dosage and remarks for TriCor 75 DF Herbicide used in Multiple Application. Refer to the Bravo 500 Fungicide label for diseases controlled and specific recommendations.

**TriCor 75 DF Herbicide Tank-Mixes Preplant Incorporated  
Followed by Postemergence Application of TRICOR 75 DF Herbicide Alone**

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide plus Treflan E.C. (480 g/L) followed by	330 - 400 g 1.2 L	500 - 750 g 1.7 L	800 - 900 g 2.4 L
	TriCor 75 DF Herbicide (Postemergence)	600 g	750 g	800 - 900 g

NOTE: For best season long control of annual grasses and annual broadleaf weeds apply a tank-mix of TriCor 75 DF Herbicide with Treflan E.C. Herbicide and preplant incorporate into the soil before transplanting tomatoes. Then follow up with a directed postemergence application of TriCor 75 DF Herbicide when weed escapes are less than 2.5 cm in height and transplants are well established (3 weeks after transplanting). Transplants must have recovered from transplant shock and new growth should be evident. This follow up TriCor 75 DF Herbicide application is usually timed for early July but should not be applied any earlier than 21 days after transplanting tomatoes or no later than 60 days before harvest. TriCor 75 DF Herbicide spray should be directed onto any emerged weeds in a manner to minimize application to crop plants. The total rate of two applications of TriCor 75 DF Herbicide should not exceed the maximum total of TriCor 75 DF Herbicide for each soil type. Do not mix or apply other pesticides to tomatoes within 24 hours of TriCor 75 DF Herbicide application. If weed pressure is light to medium, it may not be necessary to apply TriCor 75 DF Herbicide twice. Shallow cultivation may also be used to complete the control of any weeds not normally controlled by TriCor 75 DF Herbicide.

### TriCor 75 DF Herbicide Tank-Mixes: Preplant Incorporated

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual grasses, broadleaf weeds including nightshade and yellow nutsedge	TriCor 75 DF Herbicide	330 g	670 g	670 g
	plus Treflan E.C. (480 g/L)	1.1 L	2.1 L	2.1 L
	plus Dual Magnum	1.0 L	1.25 L	1.25 L
	or Dual II Magnum	1.0 L	1.25 L	1.25 L

CAUTION: THIS TANK-MIX MAY DAMAGE TRANSPLANTS AND REDUCE CROP YIELD IF TRANSPLANTS HAVE BEEN WEAKENED BY ANY CAUSE. TO PREVENT DAMAGE PLANT ONLY HEALTHY TRANSPLANTS; DO NOT PLANT WHEN WET, COOL OR UNFAVORABLE CONDITIONS PREVAIL. FOLLOW ALL APPLICATION AND INCORPORATION DIRECTIONS EXACTLY. Do not use this mixture more than once per year. Apply spray solution followed by a shallow incorporation (5-7.5 cm). Then transplant tomatoes 5-10 cm deep. Do not harvest within 60 days of application.

### ASPARAGUS (Established) - EASTERN AND WESTERN CANADA

TriCor 75 DF Herbicide is recommended for use in ground spray equipment as a preemergence surface application to established asparagus in early spring before spears or ferns emerge and/or following last cutting. Apply specified dosage in 100 to 300 L of water per hectare, depending on equipment and local practices. Do not use on newly seeded asparagus or on young plants during the first growing season after setting crowns. Do not apply to established crops after emergence of spears.

### TriCor 75 DF Herbicide Alone: Preemergence Application

Crop	Rates per hectare	Remarks
Asparagus (established)	1.5 kg	If the field is to be disked, apply TriCor 75 DF Herbicide after disking but before the crop emerges. Do not apply within 14 days of harvest.

### SWEET WHITE LUPINS - MARITIME PROVINCES ONLY

- **DO NOT APPLY TO LUPINS INTENDED FOR HUMAN CONSUMPTION.**
- Apply specified dosage in 150 to 300 L of water per hectare, depending on equipment and local practices.
- Seed must be planted at least 4 cm below the soil surface.
- Do not apply on COARSE soils with less than 2% organic matter.
- Apply during planting or as a separate operation, before crop emerges.
- Do not apply more than once per season.
- Applications of TriCor 75 DF Herbicide made at rates above those recommended may result in burning, yellowing or stunting of the crop.
- If heavy rains occur soon after application, plant injury and stand reduction may result, especially in poorly drained areas where water may stand for several days.
- Do not use treated vines for feed or forage

### TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label. Unless prohibited on this or other product labels, apply as a broadcast or band application.

**TRICOR 75 DF Herbicide Alone or in Tank-Mixes: Preemergence Application**

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual weeds	TriCor 75 DF Herbicide	560 g	675 g	675 g
Annual grasses and broadleaf weeds including nightshade1	TriCor 75 DF Herbicide plus Dual Magnum1	675 g	675 g	675 g
	or Dual II Magnum1	1.1 - 1.75 L	1.1 - 1.75 L	1.1 - 1.75 L
	Magnum1	1.1 - 1.75 L	1.1 - 1.75 L	1.1 - 1.75 L

1. For optimum nightshade control and for heavier weed problems, use higher rate of the herbicides Dual Magnum or Dual II Magnum.

**PROCESSING CARROTS - ATLANTIC CANADA ONLY**

- To be used only on processing carrots previously treated with preemergent application of linuron Herbicide (1100 g ai/ha; please refer to respective product labels for pertinent recommendations, directions for use, restrictions and precautions).
- Apply TriCor 75 DF Herbicide when the fourth leaf is partially expanded on most carrot plants, followed by a second application, if necessary, when the fifth leaf is partially expanded (about 6 days after first application).
- Carrot varieties differ in their tolerance to TriCor 75 DF Herbicide: growers should limit first use of TriCor 75 DF Herbicide to a limited area of each cultivar before adoption as a field practice.
- It may be necessary to delay harvest of more sensitive cultivars treated with TriCor 75 DF Herbicide.
- Do not apply on COARSE soils with less than 2% organic matter.

**TriCor 75 DF Herbicide Alone: Postemergence Application**

Weeds controlled	Product	Rate per hectare
Annual weeds including Scentless chamomile	TriCor 75 DF Herbicide	375 g

**NEWLY PLANTED FRUIT TREES - EASTERN CANADA AND BRITISH COLUMBIA**

- Use on apple, apricot, cherry, peach, pear and plum trees in the year of planting.
- Apply specified dosage as a preplant incorporated application in 150 - 300 L of water per hectare before transplanting fruit trees.
- Do not apply more than once per crop season.

**TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES**

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label. Unless prohibited on this or other product labels apply as a broadcast or band application.



**TriCor 75 DF Herbicide Alone or in Tank-mixes: Preplant Incorporated**

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide <sup>1</sup>	500 g	750 g	1 kg
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide plus Treflan E.C. (480 g/L)	500 g 1.2 L	750 g 1.7 L	750 g 2.4 L

1. Do not use on pear or plum trees.

**ESTABLISHED FRUIT TREES**

**- EASTERN CANADA AND BRITISH COLUMBIA**

- Use on established (bearing) apple, apricot, peach, pear, plum and sweet and sour cherry trees.
- Apply specified dosage as a preemergence band application under the trees in at least 150 L to 300 L of water per hectare.
- Do not apply more than once per crop season.

**TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES**

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label. Unless prohibited on this or other product labels, apply as a band application.

**TriCor 75 DF Herbicide Alone or in Tank-Mixes: Preemergence Application**

Weeds Controlled	Products	Rates per Hectare
Annual broadleaf weeds	TriCor 75 DF Herbicide	1.0 kg
Annual grasses and broadleaf weeds including yellow nutsedge, American nightshade and eastern black nightshade	TriCor 75 DF Herbicide plus Dual Magnum or Dual II Magnum	1.0 kg 1.75 L 1.75 L
Annual grasses and broadleaf weeds including bluegrass, perennial rye grass, wild barley, annual sow thistle, henbit, prickly lettuce and purslane	TriCor 75 DF Herbicide plus Sinbar <sup>1,2,3</sup>	1.0 kg 0.63 kg

1. Do not use on soil coarser than sandy loam with less than 3% organic matter.
2. Do not use on apricot and plum trees.
3. Treatment usually provides partial control of quackgrass, horsenettle and yellow nutsedge.

## WESTERN CANADA USES

### CROP INFORMATION AND RESTRICTIONS

TriCor 75 DF Herbicide provides selective weed control in:

CANADA WEST
Spring Barley and Spring Wheat
Dryland Winter Wheat
Field Peas
Processing Peas
Chickpeas
Lentils
Soybeans
Fababeans
Potatoes
Potatoes - Sprinkler Irrigation
Asparagus (Established)
Shelterbelts

TriCor 75 DF Herbicide may injure the following rotational crops:

- Rotation crops such as onions, celery, peppers, cole crops, lettuce and spinach, sugar beets, table beets and turnips, pumpkin and squash, cucumbers and melons, tobacco, and non-triazine tolerant canola (rapeseed) are sensitive to TriCor 75 DF Herbicide and may be injured if planted in soil treated with TriCor 75 DF Herbicide during the year of application or the following crop year.
- Fall seeded or cover crops such as wheat, oats, and rye may be injured when seeded within the same season as the application of TriCor 75 DF Herbicide.

### WEEDS CONTROLLED

NOTE: TRICOR 75 DF HERBICIDE DOES NOT CONTROL TRIAZINE RESISTANT WEED BIOTYPES AND TREFLAN E.C. HERBICIDE, AND RIVAL HERBICIDE DO NOT CONTROL TRIFLURALIN RESISTANT WEED BIOTYPES.

#### **Spring Barley and Spring Wheat (Postemergence at a rate of 200 g/ha)**

Common chickweed, Green smartweed, Hempnettle (suppression\*\* only), Lady's-thumb, Lamb's-quarter, Redroot pigweed, Stinkweed, Volunteer non-triazine tolerant canola, Wild mustard

#### **Spring Barley and Spring Wheat (Postemergence at a rate of 275 to 375 g/ha)**

Ball mustard, Common chickweed, Common Groundsel, Corn spurry, Green smartweed, Hempnettle, Henbit (375 g/ha only), Lady's-thumb, Lamb's-quarter, Night flowering catchfly, Redroot pigweed, Russian thistle (375 g/ha only), Stinkweed, Tartary buckwheat, Volunteer non-triazine tolerant canola, Wild mustard, Wormseed mustard

#### **Dryland Winter Wheat (Norstar only) (Postemergence at a rate of 560 to 750 g/ha)**

Downy Brome, Stinkweed, Flixweed, Shepherd's purse

**Chickpeas and Lentils as Postemergence Application (SUPPRESSION\*\* ONLY)**

Ball mustard, Common chickweed, Corn spurry, Green smartweed, Hempnettle, Lamb’s-quarter, Stinkweed, Tartary buckwheat, Volunteer non-triazine tolerant canola, Wild mustard

**Processing Peas, Field Peas (Postemergence)**

Ball mustard, Common chickweed, Corn spurry, Green smartweed, Hempnettle, Lamb’s-quarter, Stinkweed, Tartary buckwheat, Volunteer non-triazine tolerant canola, Wild mustard

**Field Peas, Soybeans, Lentils and Fababeans (Preplant Incorporated with Treflan E.C. Herbicide)**

Annual blue grass, Barnyard grass, Brome grass, Cheat grass, Goose grass, Green foxtail, Persian darnel, Stink grass, Wild oats, Yellow foxtail

Carpetweed, Chickweed, Cow cockle, Green smartweed, Hempnettle, Knotweed, Lady’s-thumb, Lamb’s-quarter, Purslane, Redroot pigweed, Russian Thistle (not controlled in Fababeans), Shepherd’s purse, Stinkweed, Volunteer non-triazine tolerant canola, Wild buckwheat, Wild mustard

**Field Peas (Preplant Incorporated with Rival Herbicide)**

Annual blue grass, Barnyard grass, Brome grass, Cheat grass, Crab grass, Goose grass, Green foxtail, Persian darnel, Stink grass, Wild oats, Yellow foxtail

Carpetweed, Chickweed, Corn spurry, Cow cockle, Green smartweed, Hempnettle, Knotweed, Kochia, Lady’s thumb, Lamb’s-quarter; Purslane, Redroot pigweed, Shepherd’s purse, Stinkweed, Volunteer non-triazine tolerant canola, Wild buckwheat, Wild mustard

**Potatoes and Potatoes Sprinkler Irrigation Application**

Ball mustard, Common chickweed, Corn spurry, Green smartweed, Hempnettle, Lady’s-thumb, Lamb’s-quarter, Redroot pigweed, Shepherd’s purse, Stinkweed, Tartary buckwheat, Volunteer non-triazine tolerant canola, Wild mustard

**Shelterbelts**

Green foxtail, Wild oats, Witch grass, Lamb’s-quarter, Prostrate pigweed, Purslane, Russian thistle, Shepherd’s purse, Stinkweed, Wild buckwheat

\*\*Suppression is a visual reduction in weed competition (reduced population and /or vigour) as compared to an untreated area.

**SOIL TYPES AND RESTRICTIONS**

The recommended use rates of TRICOR 75 DF Herbicide are dependent upon soil texture and organic matter content of the soil being treated. Rate tables in this label refer to the following three soil texture groups: coarse, medium, and fine.

If you are not sure how to classify your soil, contact your United Phosphorus, Inc. representative, Soils & Crops Advisor, or other knowledgeable person. The following chart includes a complete listing of soil textures included in each of the soil texture groupings:

<b>COARSE</b>	<b>MEDIUM</b>	<b>FINE</b>
Loamy sand	Loam	Silty clay loam
Sandy loam	Silt loam	Silty clay
	Silt	Clay loam
	Sandy clay loam	Clay
	Sandy clay	

- On variable soils with coarse sandy areas, some crop injury may occur on the sandy areas if the rate used is for the finer soil type.
- Sandy loam and silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions.
- Do not use this product on MUCK soils. If TRICOR 75 DF Herbicide is applied to MUCK soils, subsequent crops may be injured.
- Do not use on coarse soils with less than 2% organic matter.

## APPLICATION INFORMATION

### PREPLANT INCORPORATION (FALL AND SPRING APPLICATIONS)

- Cultivate to destroy existing weeds before TriCor 75 DF Herbicide plus tank-mix partner application. When applying to stubble field, chop and thoroughly mix crop residue into soil to a depth of 10-15 cm. Disc type implements provide the best results. To avoid concentration of wild oat seed below the treated layer, do not plow (moldboard).
- TriCor 75 DF Herbicide tank-mixes may be applied as a broadcast spray and incorporated into the soil in two different directions (see table below for specific instructions).
- TriCor 75 DF Herbicide in combination with recommended tank-mix may be applied in the spring or the fall. First incorporation must be done within 24 hours after application. For fall application, the second incorporation may be done in the spring at the time of seedbed preparation. It is preferred to do both incorporations in the fall followed by shallow tillage (disc or vibrashank cultivator operated at 5-8 cm deep) in the spring prior to planting.
- 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.
- Uneven application or improper incorporation of TriCor 75 DF Herbicide and tank-mix partner can result in erratic weed control or crop injury depending on rate used.
- Stress conditions such as seedling disease, cold weather, deep planting, excessive moisture, high salt concentration, or drought may weaken seedlings and increase the possibility of crop damage from the Herbicides. Temporary lightening in colour may occur on the margin of leaves or cotyledons and a slight delay in crop development may be observed. This is quickly outgrown and usually has no lasting effect.

Implement	Working Depth	Tractor Speed	Remarks
Tandem disk or discer	8 - 10 cm	7 - 10 km/hr.	Preferred on stubble
Vibrashank cultivator	8 - 10 cm	10 - 13 km/hr.	Do not use if soil is crusted, lumpy, or too wet for good mixing action.
Deep tillage cultivator	Not Recommended		
Rod weeder			
Harrows			
Chisel plow			
Hoe drills			

### POSTEMERGENCE APPLICATION

- Crop must be planted at least 5 cm below the soil surface.
- Do not use in crop underseeded with forage.

- Do not apply more than once per season.
- Do not tank-mix with other pesticides, wetting agents, or surfactants.
- To improve coverage the spray boom may be rotated forward by 45°.
- Activity on weeds may not be noticeable for 7 to 10 days after application.
- TriCor 75 DF Herbicide may be applied when crop is wet with dew, but weed control may be reduced if there is rainfall within 6 hours after application.
- Temporary (7-10 days) lightening in crop colour and occasional slight reduction in crop height may be observed, especially if frost or abnormally high temperatures occur within 1 to 2 days of application. If frost occurs, allow 4 to 5 days for crop to recover before applying TriCor 75 DF Herbicide.
- Activity on weeds and crop tolerance may be reduced if TriCor 75 DF Herbicide is applied later than specified crop stages.
- Allow a 4 to 5 day interval between application of TriCor 75 DF Herbicide and other pesticides such as wild oat Herbicides.

#### **SPRING BARLEY and SPRING WHEAT - WESTERN CANADA**

- Apply specified dosage as postemergence broadcast spray in 80 to 100 L of water per hectare.
- Do not graze or feed treated crop to livestock within 30 days of application.
- Do not harvest for grain within 60 days of application.
- Do not use on soils containing less than 3% organic matter. Application made before heavy rainfall or irrigation (3 cm or more) on these low organic matter soils may cause crop injury ranging from leaf burn to stand reduction.
- Use higher rate on barley for the best residual control of chickweed and hempnettle or when weed infestation is dense.

#### **TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES**

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label. Unless prohibited on this or other product labels, apply as a broadcast or band application.

#### **TriCor 75 DF Herbicide Alone or in Tank-Mixes:**

##### **Postemergence Application in SPRING BARLEY<sup>1</sup>**

<b>Weeds controlled</b>	<b>Crop stage</b>	<b>Products</b>	<b>Rates per hectare</b>
Annual broadleaf weeds (refer to other product labels for additional weeds)	2 to 5 leaf (midtillering)	TriCor 75 DF Herbicide	200 - 375 g
	3 to 5 leaf (midtillering)	TriCor 75 DF Herbicide plus MCPA (amine 500)	200 - 375 g
		or 2,4-D (amine 500)	0.85 - 1.1 L 0.85 - 1.1 L
	2 to 3 leaf	TriCor 75 DF Herbicide plus Banvel or Banvel II or Target Liquid	200 - 275 g 230 mL 230 mL 1.0 - 1.5 L

1. Barley varieties Klondike, Leduc, and Johnston are less tolerant to TriCor 75 DF Herbicide than other varieties. Some temporary lightening of crop colour may be expected and, occasionally, crop height may be reduced. Apply TriCor 75 DF Herbicide to these varieties in one of the following ways: 200 - 275 g/ha of TriCor 75 DF Herbicide alone; or 200 g/ha of TriCor 75 DF Herbicide in tank-mix with MCPA herbicide.

Do not tank-mix TriCor 75 DF Herbicide with the Herbicides Banvel, Target or 2,4-D on these varieties.

**TriCor 75 DF Herbicide Alone or in Tank-Mixes:  
Postemergence Application in SPRING WHEAT**

Weeds controlled	Crop stage	Products	Rates per hectare
Annual broadleaf weeds (refer to other product labels for additional weeds)	2 to 5 leaf (midtillering)	TriCor 75 DF Herbicide	200 - 275 g
	3 to 5 leaf (midtillering)	TriCor 75 DF Herbicide plus MCPA (amine 500) or 2,4-D (amine 500)	200 - 275 g
			0.85 - 1.1 L 0.85 - 1.1 L
	2 to 4 leaf <sup>1</sup>	TriCor 75 DF Herbicide plus Banvel or Banvel II	200 - 275 g 230 mL 230 mL
2 to 5 leaf	TriCor 75 DF Herbicide plus Target Liquid	200 - 275 g 1.0 - 1.5 L	

1. Crop tolerance may be reduced at the 4 leaf stage.

**DRYLAND WINTER WHEAT - WESTERN CANADA**

- **Use on Norstar variety only.**
- Apply specified dosage as postemergence broadcast spray in at least 100 L of water per hectare in late fall (October or November).
- Apply after the crop has commenced tillering and initiated development of secondary roots. This is usually after the 3-leaf stage. To achieve this stage, the wheat would normally need to be planted no later than September 15th. Crop injury may occur if secondary roots have not developed at time of application. Before applying TriCor 75 DF Herbicide, examine plants to determine if secondary rooting has occurred, even though plants have tillered.
- For best results, apply before weeds are 3 cm tall or have 3 cm rosettes
- Do not apply on irrigated wheat as crop injury may occur.
- Do not tank-mix TriCor 75 DF Herbicide with other pesticides or liquid fertilizers.
- Activities on weeds may not be noticeable until the following spring when growth starts.
- Do not plant any crop for at least 12 months after application.
- Weed control may be reduced if winter wheat is planted into unworked spring wheat stubble.
- Temporary chlorosis may occur after application of TriCor 75 DF Herbicide to winter wheat, especially if heavy frost occurs.

**TriCor 75 DF Herbicide Alone: Postemergence Application**

Weeds controlled	Crop stage	Products	Rates per hectare
Downy Brome and winter annual broadleaf weeds	Secondary root initiation	TriCor 75 DF Herbicide	560-750 g

**FIELD PEAS - WESTERN CANADA**

- Apply specified dosage as postemergence broadcast spray in at least 170 L of water per hectare or as preplant incorporated in at least 100 L of water per hectare.
- Do not apply more than once per season except when following split-application recommendations.

- Do not graze or feed treated crop to livestock within 70 days of application.
- Do not harvest for grain within 70 days of application.
- Do not use on soils containing less than 4% organic matter. Application made before heavy rainfall or irrigation (3 cm or more) on these low organic matter soils may cause crop injury ranging from leaf burn to stand reduction.
- Use higher rate when weed infestation is dense.

### TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, and precautions.

Unless prohibited on this or other product labels, apply as a broadcast or band application.

#### TriCor 75 DF Herbicide Alone or in Tank-Mixes: Postemergence Application<sup>1</sup>

Weeds controlled <sup>2</sup>	Products	Rates per hectare	Remarks
Annual broadleaf weeds (less than 5 cm in height)	TriCor 75 DF Herbicide (Single application)	275 - 375 g in one application	Under certain field or weather conditions a split application of TRICOR 75 DF Herbicide may provide better weed control than a single application. The first application should be made at the cotyledon to 2-leaf stage of the weeds. The second application should be made when a second flush of weeds has emerged or if weeds which were more advanced at the time of the first application are starting to regrow. Allow 7 to 10 days between applications.
	TriCor 75 DF Herbicide (Split application)	140 - 190 g Per application	
Green smartweed, lady's thumb, lamb's- quarter, wild mustard, stinkweed, redroot pigweed, volunteer non-triazine tolerant canola	TriCor 75 DF Herbicide plus MCPA Sodium salt (300 g/L)	190 g 467 mL	

1. Pea vines must be less than 15 cm long at the time of application. Do not apply within 3 days after periods of cool, wet, or cloudy weather as crop injury may occur.
2. Peas may provide poor competition against weed growth. Under conditions of heavy weed pressure or lush weed growth, TRICOR 75 DF Herbicide alone may not provide adequate control due to regrowth of some weeds.

**TriCor 75 DF Herbicide Tank-Mixes:  
Preplant Incorporated (Spring applications)<sup>1</sup>**

Weeds controlled	Products	Soil types and rates per hectare	
		COARSE (5-6% organic matter) <sup>2</sup>	MEDIUM or FINE (all soils with 6-15% organic matter) <sup>2</sup>
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide plus Treflan E.C. (480 g/L) or Rival EC	375 g	375 - 475 g
		1.7 L	2.3 - 3.0 L <sup>3</sup>
		2.2 L	2.2 - 2.8 L <sup>3</sup>

**TriCor 75 DF Herbicide Tank-Mixes:  
Preplant Incorporated (Fall applications)<sup>1</sup>**

Weeds controlled	Products	Soil types and rates per hectare	
		COARSE (4-6% organic matter) <sup>2</sup>	MEDIUM or FINE (all soils with 6-15% organic matter) <sup>2</sup>
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide plus Treflan E.C. (480 g/L)	475 g	475 - 475 g
		2.3 L	3.0 - 3.4 L <sup>3</sup>

NOTES TRICOR 75 DF Herbicide TANK-MIXES PREPLANT INCORPORATED (SPRING AND FALL APPLICATIONS)

1. Fall application: before freeze up. Spring application: when soil is warm enough to promote germination. Avoid transplanting weed seedlings; seed into a weedfree seedbed using accepted cultural practices.
2. Herbicides rate varies with soil organic matter; the higher the organic matter, the higher the rate of Herbicides required.
  - do not use on soils with less than 4% organic matter (fall application) or 5% organic matter (spring application)
  - on soils with 4-6% (fall application) or 5-6% (spring application) organic matter, use the lowest recommended rate
  - on all soils with 6-10% organic matter, select a rate in the range recommended for Medium and Fine soils
  - on all soils with 10% organic matter or greater, use the highest recommended rate (broadleaf weed control may not be adequate)
3. Use high rate in fields with high weed infestations.

**PROCESSING PEAS - WESTERN CANADA**

- Apply specified dosage as postemergence broadcast spray in at least 170 L of water per hectare.
- Do not graze or feed treated crop to livestock within 70 days of application.
- Do not harvest within 40 days of application.
- Do not use on soils containing less than 4% organic matter. Application made before heavy rainfall or irrigation (3 cm or more) on these low organic matter soils, may cause crop injury ranging from leaf burn to stand reduction.
- Use higher rate when weed infestation is dense.
- Do not tank-mix with other pesticides, wetting agents or surfactants.



**TriCor 75 DF Herbicide Alone:  
Postemergence Application<sup>1</sup>**

Weeds Controlled	Products	Rates per Hectare
Annual broadleaf weeds (no more than 5 cm in height) <sup>2</sup>	TriCor 75 DF Herbicide	275 - 375 g

1. Pea vines must be less than 15 cm long at the time of application. Do not apply within 3 days after periods of cool, wet, or cloudy weather as crop injury may occur.
2. Peas may provide poor competition against weed growth. Under conditions of heavy weed pressure or lush weed growth, TriCor 75 DF Herbicide alone may not provide adequate control due to regrowth of some weeds.

**CHICKPEAS - WESTERN CANADA**

**Use on Desi and Kabuli types only.**

- Apply specified dosage as postemergence broadcast spray in at least 170 L of water per hectare.
- Do not apply more than once per crop season.
- Do not graze or feed treated crop to livestock within 70 days of application.
- Do not harvest within 40 days of application.
- Do not use on soils containing less than 4% organic matter. Application made before heavy rainfall or irrigation (3 cm or more) on these low organic matter soils, may cause crop injury ranging from leaf burn to stand reduction.
- Do not tank-mix with other pesticides, wetting agents or surfactants.

**TriCor 75 DF Herbicide Alone: Postemergence Application<sup>1</sup>**

Weeds Controlled	Products	Rates per Hectare
Annual broadleaf weeds (no more than 5 cm in height) <sup>2</sup>	TriCor 75 DF Herbicide	275 g

1. Apply when pea vines are at the 1-3 above ground node stage (maximum height of 6 cm). **NOTE: APPLICATION PAST THE RECOMMENDED GROWTH STAGE MAY CAUSE SEVERE CROP INJURY.** Do not apply within 3 days after periods of cool, wet, or cloudy weather as crop injury may occur.
2. Chickpeas may provide poor competition against weed growth. Under conditions of heavy weed pressure or lush weed growth, TRICOR 75 DF Herbicide alone may not provide adequate suppression due to regrowth of some weeds.

**LENTILS – WESTERN CANADA**

- Apply specified dosage as postemergence broadcast spray in at least 170 L of water per hectare or as preplant incorporated in at least 100 L of water per hectare.
- Do not apply more than once per season except when following split-application recommendations.
- Do not graze or feed treated crop to livestock within 70 days of application.
- Do not harvest for grain within 70 days of application.
- Do not use on soils containing less than 4% organic matter. Application made before heavy rainfall or irrigation (3 cm or more) on these low organic matter soils may cause crop injury ranging from leaf burn to stand reduction.
- Use higher rate when weed infestation is dense.

### TriCor 75 DF Herbicide Alone: Postemergence Application<sup>1</sup>

Weeds suppressed	Products	Rates per hectare	Remarks
Annual broadleaf weeds (less than 5 cm in height) <sup>2</sup>	TriCor 75 DF Herbicide (Single application)	275 g in one application	Under certain field or weather conditions a split application of TriCor 75 DF Herbicide may provide better weed suppression than a single application. The first application should be made at the cotyledon to 2-leaf stage of the weeds. The second application should be made when a second flush of weeds has emerged or if weeds which were more advanced at the time of the first application are starting to regrow. Allow 7 to 10 days between applications.
	TriCor 75 DF Herbicide (Split application)	140 - 190 g per application	

1. Lentil vines must be less than 15 cm long or in the 3 to 5-node stage at the time of application. Do not apply within 3 days after periods of cool, wet, or cloudy weather as crop injury may occur.
2. Lentils may provide poor competition against weed growth. Under conditions of heavy weed pressure or lush weed growth, TRICOR 75 DF Herbicide alone may not provide adequate suppression due to regrowth of some weeds.

### TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, and precautions. Unless prohibited on this or other product labels, apply as a broadcast or band application.

### TriCor 75 DF Herbicide Tank-Mix:

#### Preplant Incorporated - Fall applications - prior to soil freeze-up

Weeds controlled	Products	Soil types <sup>1</sup> and rates per hectare	
		COARSE (4-6% organic matter) <sup>2</sup>	MEDIUM or FINE (all soils with 6-15% organic matter) <sup>2</sup>
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide plus Treflan E.C. (480 g/L)	475 g 2.3 L	475 - 475 g 3.0 - 3.4 L <sup>3</sup>

1. Do not use on muck soils
2. TriCor 75 DF Herbicide rate varies with the soil organic matter; the higher the organic matter, the higher the rate of TriCor 75 DF Herbicide required.
  - do not use on soils with less than 4% organic matter
  - on soils with 4-6% organic matter, use the lowest recommended rate
  - on all soils with 6-10% organic matter, select a rate in the range recommended for Medium and Fine soils
  - on all soils with 10% organic matter or greater, use the highest recommended rate (broadleaf weed control may not be adequate)
3. Use high rate of Treflan E.C. Herbicide if wild oat infestation is heavy.

Spring tillage following fall application of TriCor 75 DF Herbicide plus Treflan E.C. Herbicide should be done when the soil is warm enough to promote germination. Avoid transplanting weed seedlings; seed into a weedfree seedbed using acceptable cultural practices.

**SOYBEANS - WESTERN CANADA**

- Apply specified dosage as preplant incorporated in at least 100 L of water per hectare.
- VARIETIES: Do not use TriCor 75 DF Herbicide on AC Brant, Apache, Baron, OAC Eramosa, Maple Amber, Maple Ridge, IA 1003 or S-240. Consult your United Phosphorus, Inc. representative, chemical dealer, or your seed supplier for information on the tolerance of soybean varieties, prior to TriCor 75 DF Herbicide use.
- 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 TriCor 75 DF Herbicide and Treflan E.C. Herbicide. Under these conditions, delayed crop development or reduced yield may result.

**TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES**

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label. Unless prohibited on this or other product labels, apply as a broadcast or band application.

**TriCor 75 DF Herbicide Tank-Mixes:**

**Preplant Incorporated (Spring application)**

Weeds controlled	Products	Soil types and rates per hectare	
		COARSE (2-6% organic matter) <sup>1</sup>	MEDIUM or FINE (all soils with 6-15% organic matter) <sup>2</sup>
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide plus Treflan E.C. (480 g/L)	275 - 375 g 1.7 L	375 - 550 g 2.3 - 3.0 L <sup>2</sup>

1. TRICOR 75 DF Herbicide rate varies with the soil organic matter; the higher the organic matter the higher the rate of TRICOR 75 DF Herbicide required.
  - do not use on soils with less than 2% organic matter
  - on soils with 2-3% organic matter use 275 g/ha
  - on soils with 3-6% organic matter use 375 g/ha
  - on all soils with 6-10% organic matter, select a rate in the range recommended for Medium and Fine soils
  - on all soils with 10% organic matter or greater, use the highest recommended rate (broadleaf weed control may not be adequate)
2. Use high rate of Treflan E.C. Herbicide if wild oat infestation is heavy.

**FABABEANS - WESTERN CANADA**

- Apply specified dosage as preplant incorporated in at least 100 L of water per hectare.
- Do not use on soils with high salt content, which can be determined using a conductivity test at a provincial laboratory. Do not use when the conductivity reading is higher than 1 mS/cm using the 1 to 1 method or 2 mS/cm using the standard paste method.

### TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label. Unless prohibited on this or other product labels, apply as a broadcast or band application.

#### TriCor 75 DF Herbicide Tank-Mixes: Preplant Incorporated (Spring applications)<sup>1</sup>

Weeds controlled	Products	Soil types and rates per hectare	
		COARSE (2-6% organic matter) <sup>2</sup>	MEDIUM or FINE (all soils with 6-15% organic matter) <sup>2</sup>
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide plus Treflan E.C. (480 g/L)	275 – 375 g 1.7 L	375 - 550 g 2.3 L

#### TriCor 75 DF Herbicide Tank-Mixes: Preplant Incorporated (Fall applications)<sup>1</sup>

Weeds controlled	Products	Soil types and rates per hectare	
		COARSE (2-6% organic matter) <sup>2</sup>	MEDIUM or FINE (all soils with 6-15% organic matter) <sup>2</sup>
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide plus Treflan E.C. (480 g/L)	375 – 475 g 2.3 L	475 - 550 g 3.0 L

#### NOTES TRICOR 75 DF HERBICIDE TANK-MIXES PREPLANT INCORPORATED (SPRING AND FALL APPLICATIONS)

1. Fall application: before freeze up. Spring application: when soil is warm enough to promote germination. Avoid transplanting weed seedlings; seed into a weedfree seedbed using accepted cultural practices.
2. Herbicides rate varies with the soil organic matter; the higher the organic matter, the higher the rate of Herbicides required.
  - do not use on soils with less than 2% organic matter
  - on soils with 2-3% organic matter, use the lowest recommended rate
  - on soil with 3-6% organic matter, use 375 g/ha in spring application or 475 g/ha in fall application
  - on all soils with 6-10% organic matter, select a rate in the range recommended for Medium and Fine soils
  - on all soils with 10% organic matter or greater, use the highest recommended rate (broadleaf weed control may not be adequate)

**POTATOES  
MANITOBA, SASKATCHEWAN, ALBERTA,  
AND INTERIOR BRITISH COLUMBIA**

- Apply specified dosage as postemergence broadcast spray or preplant incorporated in 100 to 300 L of water per hectare.
- Do not use on the varieties Belleisle or Tobique.
- Consult your chemical dealer, United Phosphorus, Inc. representative or your seed supplier for information on the tolerance of newly released potato varieties, prior to TriCor 75 DF Herbicide use.
- Do not harvest within 60 days of application.
- FOR ADDITIONAL USES IN ALBERTA UNDER IRRIGATION AND IN COASTAL BRITISH COLUMBIA, SEE THE EASTERN CANADA POTATO SECTION OF THIS LABEL.

**TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES**

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label. Unless prohibited on this or other product labels, apply as a broadcast or band application.

**TriCor 75 DF Herbicide Alone or in Tank-Mixes: Postemergence Application<sup>1</sup>**

Weeds controlled	Products	Rates per hectare
Annual broadleaf weeds less than 4 cm in height	TriCor 75 DF Herbicide	375 g
Above plus green foxtail	TriCor 75 DF Herbicide Plus Prism <sup>2</sup>	280 - 375 g <sup>3</sup> 60 g

1. Do not use postemergence on varieties Atlantic, Eramosa, red-skinned or any early maturing varieties
2. Prism Herbicide must be applied with a recommended non-ionic surfactant, i.e. Citowett Plus, Agral 90 or Agsurf at 2 L per 1000 L of spray solution (0.2% v/v).
3. The application rate of TriCor 75 DF Herbicide at 375 g per hectare should be used under conditions of heavy weed infestation.

**TriCor 75 DF Tank-Mixes: Preplant Incorporated<sup>1</sup>**

Weeds controlled	Products	Rates per hectare
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide plus Eptam 8-E	375 - 550 g
		4.25 - 5.5 L

1. Do not use on soils with greater than 7% organic matter.

**POTATOES - SPRINKLER IRRIGATION APPLICATION  
MANITOBA, SASKATCHEWAN, ALBERTA, AND INTERIOR BRITISH COLUMBIA**

TriCor 75 DF Herbicide and Eptam 8-E Herbicide are recommended for application preemergence through sprinkler irrigation equipment to potatoes as directed on this label. Refer to the crop sections of this label for recommended rates, weeds controlled or suppressed, restrictions and special precautions.

Apply this product only through sprinkler (including centre pivot, lateral move, or solid set) irrigation systems, equipped with low pressure nozzles. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

#### CALIBRATION: (Centre Pivot and Self-Propelled Lateral Move Systems)

Sprinkler irrigation systems must deliver a uniform application of water and be accurately calibrated for application of TriCor 75 DF Herbicide. Greater accuracy in calibration (and distribution) will be achieved by injecting a larger volume of more dilute mixture of product and water per hour. Follow the steps below to calibrate centre pivot and lateral move systems:

1. Determine number of minutes required to make one complete revolution while applying 6 to 19 mm of water per hectare.
2. With the system at operating pressure determine the exact number of minutes required to inject 3.8 litres of water.
3. Divide the time required for one revolution (step 1) by the time required to inject 3.8 litres (step 2) and multiply by 3.8. This gives total litres of product-water mixture to be added to nurse tank.
4. Add required amount of water to nurse tank and start the agitation system. Then add sufficient TriCor 75 DF Herbicide at the recommended rate (See RECOMMENDED BROADCAST APPLICATION) to the nurse tank.

EXAMPLE: If 20 hours (1200 minutes) were required for one revolution and if 2 minutes were required to inject 3.8 litres then a total of 2280 litres of product-water mixture are required  $[(1200 \div 2) \times 3.8 = 2280]$ ; to treat 55 ha at 0.75 kg/ha, 41.25 kg of TriCor 75 DF Herbicide is required.

Do not connect an irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water system are in place.

A person knowledgeable of the irrigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favours drift beyond the area intended for treatment.

Maintain continuous agitation in the injection nurse tanks during the Herbicide application, sufficient to keep the Herbicide in suspension.

Application of more than the quantity of irrigation water recommended on this label may result in decreased product performance by removing the chemical from the zone of effectiveness. Where sprinkler distribution patterns do not overlap sufficiently unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. To insure that all lines are flushed and free of remaining pesticide, an indicator dye may be injected into the lines to mark the end of the application period.

Use a minimum of 1 part water to 1 part Herbicide for injection. The use of a larger volume of water will insure greater accuracy and more uniform distribution. The run off water (tail water) from sprinkler irrigation should be recirculated.

**TriCor 75 DF Herbicide Plus Eptam 8-E Tank-Mix<sup>1</sup>:  
Preemergence Through Sprinkler Irrigation System:**

Weeds controlled	Products	Rates per hectare
Annual grasses and broadleaf weeds	TriCor 75 DF Herbicide plus Eptam 8-E	375 - 750 g
		4.25 - 5.5 L
REMARKS: PREEMERGENCE IN SPRINKLER IRRIGATION: Apply specified dosage in 8 to 19 mm of water per hectare as a continuous injection in centre pivot systems, or in the last 15 to 30 minutes of set in permanent solid set sprinkler systems or self-propelled wheel move systems. On sandy soil apply in 8 to 12 mm of water and use the lower rate of TriCor 75 DF Herbicide and Eptam 8-E Herbicide. Apply preemergence to crop and weeds. Use the higher rate for control of grass weeds or when broadleaf weeds are dense. Do not harvest within 60 days of application.		

1. Do not use on the varieties Belleisle or Tobique.

**ASPARAGUS - WESTERN CANADA**

- SEE ASPARAGUS RECOMMENDATIONS IN THE EASTERN CANADA SECTION OF THIS LABEL.

**SHELTERBELTS - WESTERN CANADA**

- Apply specified dosage as preplant incorporated broadcast spray in at least 100 L to 225 L of water per hectare.
- Do not apply more than once per season.
- Do not use on soils with less than 5% organic matter.
- On soils with 10% organic matter and higher, broadleaf weed control will not be adequate.
- Seedling disease, cold weather, deep planting, excessive moisture, high soil pH (above 7.5), high salt concentration, or drought may weaken seedlings and increase the possibility of damage from TRICOR 75 DF Herbicide and Treflan E.C. Herbicide.

**TRICOR 75 DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES**

Refer to the other product label for pertinent recommendations, directions for use, restrictions, and precautions.

Unless prohibited on this or other product labels, apply as a broadcast application.

**TriCor 75 DF Herbicide Tank-Mixes:  
Preplant Incorporated (Spring application)**

Crops	Products	Rates per hectare
Shelterbelt Species: Green ash Caragana Chokecherry Villosa lilac Poplar Saskatoon berry Sea-buckthorn	TriCor 75 DF Herbicide plus Treflan E.C. (480 g/L)	400 g 5.2 L

TriCor is a registered trademark of United Phosphorus, Inc.  
 All other products listed are registered trademarks or trademarks of their respective companies.



{Booklet Label}

GROUP

14

HERBICIDE

**Valtera™ Herbicide**

HERBICIDE  
Water Dispersible Granules  
COMMERCIAL

Preemergence weed control in soybean, field corn, spring wheat, chickpea, field pea, lentils [small red and large green varieties], sunflowers and to maintain bare ground non-crop areas, including bare ground non-crop areas on farms. Also for harvest aid for dried shelled pea and bean (except soybean) and wheat.

ACTIVE INGREDIENT:

Flumioxazin.....51.1%

**READ THE LABEL BEFORE USE**

Warning: This product contains the allergen sulfite.

REGISTRATION NO.: 29230  
PEST CONTROL PRODUCTS ACT



**CAUTION - POISON**

**Net Contents: 2.27 kg**

Valent Canada, Inc.  
3-728 Victoria Road South  
Guelph, Ontario, Canada  
N1L 1C6  
(519)-767-9262  
www.valent.ca

## 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.

## FIRST AID

- 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.
- 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 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.

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

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL OR POISONING CALL  
1-800-682-5368***

## TOXICOLOGICAL INFORMATION

There is no specific antidote for this product. Apply symptomatic therapy.

## PRECAUTIONS

**KEEP OUT OF REACH OF CHILDREN.** Avoid breathing dust and spray mist. Avoid contact with skin, eyes or clothing. Harmful if inhaled.

Wear protective goggles or face-shield when handling the concentrated product. Do not eat, drink or smoke during work. Wash hands and face thoroughly before eating, drinking, smoking, chewing gum, or using the toilet. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes. Remove clothing immediately if pesticide gets inside. Wash thoroughly and put on clean clothing. After

work, change clothing and wash entire body thoroughly. Wash contaminated working clothes separately from other laundry before reuse.

Follow mixer/loader and applicator scenario, as appropriate in the chart below. In addition, wear coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes, goggles or face-shield, during clean-up and repair activities.

Equipment	Personal Protective Equipment		Maximum amount of product handled per day
	Mixer/Loader	Applicator	
Groundboom	Chemical-resistant coveralls over long sleeved shirt and long pants, chemical-resistant gloves, socks and shoes, and goggles or faceshield	<b>Open cab:</b> coveralls over long-sleeved shirt, long pants, socks and shoes, and chemical-resistant gloves, and respirator with a NIOSH approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH approved canister approved for pesticides	37 kg
		<b>Closed cab:</b> long-sleeved shirt, long pants, socks and shoes. (No gloves are required, but must be available for maintenance activities)	
Right-of-Way sprayer	Chemical-resistant coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes. Mixers and loaders must also wear goggles or faceshield.		7.0 kg
Backpack or High-pressure handwand equipment	Coveralls over long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes, and respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides. Mixers and loaders must also wear goggles or faceshield.		1.2 kg
Low-pressure Hand-held Equipment			0.315 kg

Do not apply when weather conditions favour spray drift from treated areas. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Keep all unprotected persons out of operating areas, or vicinity where there may be drift. Only protected handlers may be in the area during application.

Application is limited to non-residential areas only when there is low risk of drift to areas of human habitation or activity such as houses, cottages, schools and recreational areas, taking into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

Do not enter or allow entry into treated areas until the sprays have dried in non-crop bare ground use areas. Do not enter or allow worker entry into treated areas until the restricted entry interval of 12 hours for all crop uses.

Do not apply to fine-textured soils.

Pregrazing Intervals:

Following treatment with Valtera™ Herbicide, follow these grazing restrictions:

For field corn:

- DO NOT permit livestock to graze fields within 93 days after application.
- DO NOT harvest as green feed or silage within 93 days after application.

For soybeans:

- DO NOT harvest as green feed or permit livestock to graze fields within 21 days after application.
- DO NOT cut hay/fodder within 50 days after application.

For wheat:

- DO NOT harvest as green feed or permit livestock to graze fields within 26 days after application.
- DO NOT cut hay/fodder within 52 days after application.

For all other crops:

- DO NOT graze, cut or feed treated crops to livestock.

Do not apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.

Do not apply within 100 metres of non-dormant pears.

Do not apply to powdery soils or soils that are susceptible to wind displacement unless irrigation can be applied immediately after application.

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., contact Valent Canada, Inc.

Read and understand the entire label before opening this product. If you have any questions, call the manufacturer at 1-800-682-5368 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

#### **ENVIRONMENTAL PRECAUTIONS**

This product is toxic to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. Toxic to small wild mammals.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

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 strip between the treated area and the edge of the water body.

## **DISPOSAL**

**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 container unsuitable for further use.

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

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.

## **STORAGE**

Do not contaminate water, food or feed by storage. Keep pesticide in original container. Store in a cool, dry, secure place. Do not put formulation or dilute spray solution into food or drink containers. Do not store or transport near feed or food. Not for use or storage in or around the home. To prevent contamination, store this product away from food or feed.

## **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management Valtera Herbicide contains a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to Valtera Herbicide and other Group 14 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 Valtera Herbicide or other Group 14 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in the 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), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological biological (weed-competitive crops or varieties) and other chemical control practices.
- Monitor treated weed populations for 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 and planting clean seed.
- 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 advisor for any additional pesticide resistance-management and/or or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information and to report suspected resistance, contact Valent Canada, Inc. at 1-800-682-5368 or at [www.valent.ca](http://www.valent.ca).

## GENERAL INFORMATION

Valtera Herbicide provides residual control of susceptible weeds in soybean, field corn, spring wheat, chickpea, field pea, lentils [small red and large green varieties], sunflowers and to maintain bare ground non-crop areas on farms when used in accordance with this label. It also may be used as a harvest aid for crop subgroup 6C dried shelled pea and bean (including bean (*Lupinus* spp.), bean (*Phaseolus* spp.), bean (*Vigna* spp.), broad bean [fava bean], chickpea, guar, lablab bean, lentil, pea (*Pisum* spp.), pigeon pea (excluding soybean) and wheat. Valtera Herbicide is effective as a preemergence herbicide, for control of selected grass and broadleaf weeds. Valtera Herbicide controls weeds by inhibiting protoporphyrinogen oxidase, an essential enzyme required by plants for chlorophyll biosynthesis. Seedling weeds are controlled preemergence when exposed to sunlight following contact with the soil applied herbicide. Preemergence weed control with Valtera Herbicide is most effective when applied to clean, weed-free soil surfaces. Disturbing soil surfaces may reduce herbicide efficacy.

Valtera Herbicide offers residual control of susceptible grass and broadleaf weeds listed on this label and assists in the control of acetolactate synthase (ALS) resistant weeds. The length of residual control is dependent on the application rate as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase and on soils of high organic matter and/or high clay content.

Always read and follow label directions for all tank mix products before using. The most restrictive labeling of any tank mix partner must be followed.

### Rotational Restrictions

The following rotational crops may be planted after applying Valtera Herbicide at the listed rate. Planting earlier than the recommended rotational interval may result in crop injury.

<b>Valtera Herbicide Rate</b>	<b>Crop</b>	<b>Rotational Interval</b>
105-140 g/ha (for harvest aid use on Dried Shelled Pea and Bean (except soybean))	Winter wheat	7 days
140 g/ha	Soybean, field corn, chickpea, field pea	Immediately
	Sunflowers	30 days
	Spring Wheat	7 days
	Durum Wheat	30 days
	Winter wheat	4 months
	Lentils [small red and large green varieties]	6 months
	Sorghum, dry common beans <sup>1</sup> , and Canola	9 months
	Alfalfa and barley	11 months
	All other crops not listed <sup>2</sup>	12 months
210 g/ha	Soybean, field corn, chickpea, field pea	Immediately
	Sunflowers	2 months
	Spring Wheat	7 days
	Winter wheat	4 months
	Lentils [small red and large green varieties]	6 months
	Sorghum, dry common beans <sup>1</sup>	9 months
	Alfalfa, barley, and canola	11 months
	All other crops not listed <sup>2</sup>	12 months

<sup>1</sup> Common bean varieties vary in their tolerance to herbicides, including to Valtera Herbicide. Since not all common bean varieties grown as rotational crops have been tested for tolerance to Valtera Herbicide, first seeding common bean varieties to the field previously treated with Valtera Herbicide should be limited to a small area to confirm tolerance prior to adoption as a general field practice. Additionally, consult your seed supplier for information on the tolerance of specific varieties of common bean as a rotational crop seeded to field treated with Valtera Herbicide.

<sup>2</sup> Successful soil bioassay must be performed prior to planting crops not listed.

## **GENERAL DIRECTIONS FOR USE**

### **SPRAYER AND APPLICATION INFORMATION**

Apply using ground application equipment only. Before applying Valtera Herbicide, start with clean, well maintained application equipment. Nozzles should be uniformly spaced on boom and frequently checked for accuracy. For broadcast application, apply Valtera Herbicide with ground equipment using standard commercial sprayers equipped with

nozzles designed to deliver the desired spray pressure and spray volume. When banding, use proportionately less water and Valtera Herbicide per hectare.

Equipment with Valtera Herbicide residues remaining in the system may result in crop injury to the subsequently treated crop. Spray equipment used to apply Valtera Herbicide should not be used to apply other materials to any plant foliage. Spray equipment must be cleaned each day following Valtera Herbicide application. After Valtera Herbicide is applied, the following steps must be used to clean the spray equipment:

1. Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank and all in-line screens. Fill the spray tank with clean water and flush all hoses, booms, screens and nozzles.
2. Top off tank, add 4 L of 3% household ammonia for every 400 L of water, circulate through sprayer for 5 minutes, and then flush all hoses, booms, screens and nozzles for a minimum of 15 minutes.
3. Drain tank completely.
4. Add enough clean water to the spray tank to allow all hoses, booms, screens and nozzles to be flushed for 3 minutes.
5. Remove all nozzles and screens and rinse them with clean water.
6. Do not contaminate water, food or feed by cleaning of equipment.

#### **MIXING INSTRUCTIONS**

1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water. Engage gentle agitation.
2. While agitating, slowly add Valtera Herbicide to the spray tank. Agitation should create a rippling or rolling action on the water surface.
3. If tank mixing Valtera Herbicide with other labelled herbicides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
4. Add adjuvants or surfactants, if recommended.
5. Fill spray tank to desired level with water. **Agitation should continue until spray solution has been applied.**
6. Mix only the amount of spray solution that can be applied the day of mixing. Valtera Herbicide should be applied within 6 hours of mixing.

As this pesticide 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.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

**DO NOT** apply by air.



Use caution when applying under circumstances where possible drift to unprotected persons or food, forage or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption can occur.

Use the largest droplet size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much pressure.

Make application when the wind velocity favours on-target product deposition.

Do not make applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures.

All ground application equipment must be properly maintained and calibrated using appropriate carriers.

**BUFFER ZONES:**

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment, or low-clearance hooded or shielded sprayers that ensure spray drift does not come in contact with orchard crop fruit or foliage.

For application to rights-of-way, buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies which minimize off-site drift, including meteorological conditions (e.g., wind direction, low wind speed) and spray equipment (e.g., coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified buffer zones for protection of sensitive terrestrial and aquatic habitats.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	

		2	1	0	0	5
Field sprayer	Soybean, field corn, spring wheat, Crop Subgroup 6C (Dried Shelled Pea and Bean (except soybean)), Sunflowers	3	1	1	0	10
	Bare ground, non-crop uses	5	2	1	1	25*

\* Buffer zones for the protection of terrestrial habitats are not required for use on rights-of-way including railroad ballast, rail and hydro rights-of-way, and utility easements.

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

**The spray drift buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.**

#### **DIRECTIONS FOR USE IN SOYBEAN**

Valtera Herbicide offers residual control of susceptible broadleaf and grass weeds listed on this label and assists in the control of acetolactate synthase (ALS) resistant weeds. The length of residual control is dependent on the application rate as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase and on soils of high organic matter and/or high clay content.

Crop injury may occur from applications made to poorly drained soil and/or applications made under cool, wet conditions. Severe crop injury will result when soils are flooded following applications of Valtera Herbicide. Risk of crop injury can be minimized by using on well drained soils, planting at least 4 cm deep, using high quality seed and completely covering seeds with soil prior to preemergence applications. Treated soil that is splashed onto newly emerged crops may result in temporary crop injury.

Moisture is necessary to activate Valtera Herbicide in soil for residual weed control. Dry weather following applications of Valtera Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, Valtera Herbicide will control susceptible germinating weeds. Valtera Herbicide may not control weeds that germinate after application but before an activating rainfall/irrigation or weeds that germinate through cracks resulting from dry soil.

When adequate moisture is not received after a Valtera Herbicide application, weed control may be improved by irrigation with at least ½ to 1 cm of water. Weed control will be reduced if there is mechanical incorporation into the soil or if emerged weeds are controlled by cultivation.

If the crop treated with Valtera Herbicide is lost due to a catastrophe, such as hail or other forms of inclement weather, soybeans can be replanted immediately, provided no more than 210 g/ha of Valtera Herbicide was used on the lost crop. Crop injury may occur if these restrictions are not followed.

No-till planters that incorporate the soil during planting may result in decreased weed control in the row. When these types of planters are used, apply Valtera Herbicide within 3 days of planting and before soybeans emerge.

Do not perform any tillage operations after application or weed control will be reduced.

Apply only once during a single growing season.

### APPLICATION TIMING

Valtera Herbicide provides preemergence control of susceptible weeds in soybeans. Apply Valtera Herbicide with ground equipment before planting, during planting, or after planting, but before the crop emerges. Do not apply by air. Apply using ground application equipment only.

### Preemergence Applications

Valtera Herbicide may be applied to soybeans prior to planting or within 3 days after planting and prior to soybean emergence. Application after the soybeans have begun to crack, or are emerged, will result in severe crop injury. At an application rate of 210 g/ha of Valtera Herbicide on medium-textured soils, soybean crop injury may be observed following application.

### Burndown Applications (Spring and Fall)

Valtera Herbicide, applied as part of a burndown program, may be used for residual weed control where soybeans will be planted directly into a stale seedbed, cover crop, or in previous crop residues. For control of emerged weeds, tank mix with glyphosate, present as the isopropyl amine or potassium salt. Reduced weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

### Tank Mix Restrictions

Do not tank mix Valtera Herbicide, or use in the same field, with flufenacet, metolachlor or s-metolachlor, dimethanamid or dimethanamid-p, alachlor, or acetochlor, as soybean injury may occur.

<b>SOYBEAN– Application Rates and Weed Claims</b>			
<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE (g/ha)</b>	<b>COMMENTS</b>
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> ) Common lamb's-quarters ( <i>Chenopodium album</i> )	Coarse-textured, with <5% organic matter	140	Preemergence: Apply prior to weed emergence.
Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum ptycanthum</i> )	Medium-textured, with <5% organic	210	Postemergence: When weeds are already emerged,

<p>Kochia (<i>Kochia scoparia</i>) including Group 2, 4, and 9 resistant kochia  Canada fleabane (<i>Conyza canadensis</i>)  Common chickweed (<i>Stellaria media</i>)  Palmer amaranth (<i>Amaranthus palmeri</i>)  Waterhemp, including biotypes resistant to herbicide groups 2, 5 and 9</p> <p><i>Suppression only:</i>  Green foxtail (<i>Setaria viridis</i>)  Volunteer canola (<i>Brassica napus</i>) including glyphosate, glufosinate and imidazolinone tolerant varieties</p>	<p>matter</p>		<p>apply Valtera Herbicide as a tank mix<sup>2</sup> with a glyphosate product, present as isopropyl amine or potassium salt, at 1.2 kg a.i./ha.</p>
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<sup>1</sup>: Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup>: Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

**DIRECTIONS FOR USE IN FIELD CORN (minimum and no-till)**

Valtera Herbicide offers residual control of susceptible broadleaf and grass weeds listed on this label and assists in the control of acetolactate synthase (ALS) resistant weeds. The length of residual control is dependent on the application rate as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase and on soils of high organic matter and/or high clay content.

Use only on no-till or minimum tillage fields where last year’s crop residue has not been incorporated into the soil. Crop injury may occur from applications made to poorly drained soil and/or applications made under cool, wet conditions. Severe crop injury will result when soils are flooded following applications of Valtera Herbicide.

Moisture is necessary to activate Valtera Herbicide in soil for residual weed control. Dry weather following applications of Valtera Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, Valtera Herbicide will control susceptible germinating weeds. Valtera Herbicide may not control weeds that germinate after application but before an activating rainfall/irrigation or weeds that germinate through cracks resulting from dry soil.

When adequate moisture is not received after a Valtera Herbicide application, weed control may be improved by irrigation with at least ½-1 cm of water. Do not irrigate when corn is emerging to 2-leaf.

Weed control will be reduced if there is mechanical incorporation into the soil or if emerged weeds are controlled by cultivation. Do not perform any tillage operations after application or weed control will be reduced. No-till planters that incorporate the soil during planting may result in decreased weed control in the row.

Apply only once during a single growing season.

**APPLICATION TIMING**

**Preemergence Applications**

Valtera Herbicide provides preemergence control of susceptible weeds in field corn. Apply Valtera Herbicide with ground equipment between 7 and 30 days prior to planting field corn into no-till or minimum tillage fields.

**Burndown Applications (Spring and Fall)**

Valtera Herbicide, applied as part of a burndown program, may be used for residual weed control where field corn will be planted directly into previous crop residues. For control of emerged weeds, tank mix with glyphosate, present as isopropyl amine or potassium salt. Reduced weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

Do not apply by air. Use ground application equipment only.

<b>FIELD CORN – Application Rates and Weed Claims</b>			
<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE (g/ha)</b>	<b>COMMENTS</b>
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> ) Common lamb’s-quarters ( <i>Chenopodium album</i> ) Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum ptycanthum</i> ) Kochia ( <i>Kochia scoparia</i> ) including Group 2, 4, and 9 resistant kochia  Canada fleabane ( <i>Conyza canadensis</i> ) Common chickweed ( <i>Stellaria media</i> ) Palmer amaranth ( <i>Amaranthus palmeri</i> ) Waterhemp, including biotypes resistant to herbicide groups 2, 5 and 9  <i>Suppression only:</i> Green foxtail ( <i>Setaria viridis</i> ) Volunteer canola ( <i>Brassica napus</i> ) including glyphosate, glufosinate and imidazolinone tolerant varieties	Coarse-textured, with <5% organic matter	140	Preemergence: Apply prior to weed emergence between 7 and 30 days prior to planting field corn into no-till or minimum tillage fields.  Postemergence: When weeds are already emerged, apply Valtera Herbicide as a tank mix <sup>2</sup> with a glyphosate product, present as isopropyl amine or potassium salt, at 1.2 kg a.i./ha.
	Medium-textured, with <5% organic matter	210	

<sup>1</sup>: Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup>: Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

**DIRECTIONS FOR USE IN SPRING WHEAT (minimum and no-till)**

Valtera Herbicide offers residual control of susceptible broadleaf and grass weeds listed on this label and assists in the control of acetolactate synthase (ALS) resistant weeds. The length of residual control is dependent on the application rate as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase and on soils of high organic matter and/or high clay content.

Use only on no-till or minimum tillage fields where last year's crop residue has not been incorporated into the soil. Crop injury may occur from applications made to poorly drained soil and/or applications made under cool, wet conditions. Severe crop injury will result when soils are flooded following applications of Valtera Herbicide.

Moisture is necessary to activate Valtera Herbicide in soil for residual weed control. Dry weather following applications of Valtera Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, Valtera Herbicide will control susceptible germinating weeds. Valtera Herbicide may not control weeds that germinate after application but before an activating rainfall/irrigation or weeds that germinate through cracks resulting from dry soil.

When adequate moisture is not received after a Valtera Herbicide application, weed control may be improved by irrigation with at least ½ to 1 cm of water. Do not irrigate spring wheat between emergence and spike.

Weed control will be reduced if there is mechanical incorporation into the soil or if emerged weeds are controlled by cultivation. Do not perform any tillage operations after application or weed control will be reduced. No-till planters that incorporate the soil during planting may result in decreased weed control in the row.

Apply only once during a single growing season.

## **APPLICATION TIMING**

### **Preemergence Applications (Spring)**

Valtera Herbicide provides preemergence control of susceptible weeds in spring wheat. Apply Valtera Herbicide with ground equipment at minimum 7 days prior to planting spring wheat into no-till or minimum tillage fields. Wheat must be planted a minimum of 2.5 cm (1 inch) deep to ensure crop safety. Do not plant Durum wheat within 30 days of an application of Valtera Herbicide.

### **Burndown Applications (Spring and Fall)**

Valtera Herbicide, applied as part of a burndown program, may be used for residual weed control where spring wheat will be planted directly into previous crop residues. For control of emerged weeds, tank mix with glyphosate, present as isopropyl amine or potassium salt. Reduced weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

For fall burndown: Application should be made in the fall, just before freeze-up and when winter annuals and perennial weeds are still growing to allow for optimum herbicide absorption and activity. Applications made after a killing frost will result in reduced perennial and winter annual weed control. Do not apply to snow covered or frozen soil. Abnormally warm winters may reduce the length of weed control observed in the spring.

Do not apply by air. Use ground application equipment only.

<b>SPRING WHEAT – Application Rates and Weed Claims for FALL APPLICATION</b>			
<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE (g/ha)</b>	<b>COMMENTS</b>
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> ) Common lamb's-quarters ( <i>Chenopodium album</i> ) Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum ptycanthum</i> ) Kochia ( <i>Kochia scoparia</i> ) including Group 2, 4, and 9 resistant kochia  Canada fleabane ( <i>Conyza canadensis</i> ) Common chickweed ( <i>Stellaria media</i> ) Palmer amaranth ( <i>Amaranthus palmeri</i> ) Waterhemp, including biotypes resistant to herbicide groups 2, 5 and 9  <i>Suppression only:</i> Green foxtail ( <i>Setaria viridis</i> ) Volunteer canola ( <i>Brassica napus</i> ) including glyphosate, glufosinate and imidazolinone tolerant varieties	Coarse- textured, with <5% organic matter	140	Preemergence: Apply prior to weed emergence in the fall. The following spring, plant spring wheat into no-till or minimum tillage fields.  Postemergence: When weeds are already emerged, apply Valtera Herbicide as a tank mix <sup>2</sup> with a glyphosate product, present as isopropyl amine or potassium salt, at 1.2 kg a.i./ha.
	Medium- textured, with <5% organic matter	210	

<sup>1</sup>: Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup>: Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

<b>SPRING WHEAT – Application Rates and Weed Claims for SPRING APPLICATION</b>			
<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE<sup>2</sup> (g/ha)</b>	<b>COMMENTS</b>

<p>Redroot pigweed (<i>Amaranthus retroflexus</i>)  Green pigweed (<i>Amaranthus powellii</i>)  Common ragweed (<i>Ambrosia artemisiifolia</i>)  Common lamb's-quarters (<i>Chenopodium album</i>)  Hairy nightshade (<i>Solanum sarachoides</i>)  Dandelion (<i>Taraxacum officinale</i>)  Eastern black nightshade (<i>Solanum ptycanthum</i>)  Kochia (<i>Kochia scoparia</i>) including Group 2, 4, and 9 resistant kochia</p> <p>Canada fleabane (<i>Conyza canadensis</i>)  Common chickweed (<i>Stellaria media</i>)  Palmer amaranth (<i>Amaranthus palmeri</i>)  Waterhemp, including biotypes resistant to herbicide groups 2, 5 and 9</p> <p><i>Suppression only:</i>  Green foxtail (<i>Setaria viridis</i>)  Volunteer canola (<i>Brassica napus</i>) including glyphosate, glufosinate and imidazolinone tolerant varieties</p>	<p>Coarse-textured and medium-textured soil, with &lt;5% organic matter</p>	<p>140</p>	<p>Preemergence:  Apply prior to weed emergence, and at minimum 7 days prior to planting spring wheat into no-till or minimum tillage fields.</p> <p>Postemergence:  When weeds are already emerged, apply Valtera Herbicide as a tank mix<sup>3</sup> with a glyphosate product, present as isopropyl amine or potassium salt, at 1.2 kg a.i./ha.</p>
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<sup>1</sup>: Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup>: The duration of residual control may be reduced with 140 g/ha in medium textured soils <5% in OM.

<sup>3</sup>: Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

## DIRECTIONS FOR USE IN FIELD PEA

Valtera Herbicide offers residual control of susceptible broadleaf and grass weeds listed on this label and assists in the control of acetolactate synthase (ALS) resistant weeds.. The length of residual control is dependent on the application rate as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase and on soils of high organic matter and/or high clay content.

Moisture is necessary to activate Valtera Herbicide in soil for residual weed control. Dry weather following applications of Valtera Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, Valtera Herbicide will control susceptible germinating weeds. Valtera Herbicide may not control weeds that germinate after application but before an activating rainfall/irrigation or plants that germinate through cracks resulting from dry soil.

When adequate moisture is not received after a Valtera Herbicide application, weed control may be improved by irrigation with at least ½ to 1 cm of water. Control will be reduced if there is mechanical incorporation into the soil or if emerged weeds are controlled by cultivation.

Do not perform any tillage operations after application or weed control will be reduced.

Apply only once during a single growing season.



Do not apply by air. Apply using ground application equipment only.

**APPLICATION TIMING**

**Preemergence Applications (spring)**

Valtera Herbicide provides preemergence control of susceptible weeds in field pea. Apply Valtera Herbicide with ground equipment prior to planting or within 3 days after planting and prior to emergence. Application after the field peas have begun to crack, or are emerged, will result in severe crop injury.

**Burndown Applications (Spring and Fall)**

Valtera Herbicide, applied as part of a burndown program, may be used for residual weed control where field pea will be planted directly into previous crop residues. For control of emerged weeds, tank mix with glyphosate, present as isopropyl amine or potassium salt. Reduced weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

For fall burndown: Application should be made in the fall, just before freeze-up and when winter annuals and perennial weeds are still growing to allow for optimum herbicide absorption and activity. Applications made after a killing frost will result in reduced perennial and winter annual weed control. Do not apply to snow covered or frozen soil. Abnormally warm winters may reduce the length of weed control observed in the spring.

<b>FIELD PEA – Application Rates and Weed Claims for FALL APPLICATIONS</b>			
<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE (g/ha)</b>	<b>COMMENTS</b>
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> ) Common lamb’s-quarters ( <i>Chenopodium album</i> )	Coarse- textured, with <5% organic matter	140	Preemergence: Apply prior to weed emergence.
Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum ptycanthum</i> ) Kochia ( <i>Kochia scoparia</i> ) including Group 2, 4, and 9 resistant kochia  Canada fleabane ( <i>Conyza canadensis</i> ) Common chickweed ( <i>Stellaria media</i> ) Palmer amaranth ( <i>Amaranthus palmeri</i> ) Waterhemp, including biotypes resistant to herbicide groups 2, 5 and 9  <i>Suppression only:</i> Green foxtail ( <i>Setaria viridis</i> ) Volunteer canola ( <i>Brassica napus</i> ) including glyphosate, glufosinate and imidazolinone tolerant varieties	Medium- textured, with <5% organic matter	210	Postemergence: When weeds are already emerged, apply Valtera Herbicide as a tank mix <sup>2</sup> with a glyphosate product, present as potassium salt, at 900 g a.i./ha

<sup>1</sup>: Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup>: Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

<b>FIELD PEA – Application Rates and Weed Claims for SPRING APPLICATION</b>			
<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE<sup>2</sup> (g/ha)</b>	<b>COMMENTS</b>
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> ) Common lamb's-quarters ( <i>Chenopodium album</i> ) Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum ptycanthum</i> ) Kochia ( <i>Kochia scoparia</i> ) including Group 2, 4, and 9 resistant kochia  Canada fleabane ( <i>Conyza canadensis</i> ) Common chickweed ( <i>Stellaria media</i> )  Palmer amaranth ( <i>Amaranthus palmeri</i> ) Waterhemp, including biotypes resistant to herbicide groups 2, 5 and 9  <i>Suppression only:</i> Green foxtail ( <i>Setaria viridis</i> ) Volunteer canola ( <i>Brassica napus</i> ) including glyphosate, glufosinate and imidazolinone tolerant varieties	Coarse-textured and Medium-textured, with <5% organic matter	140	Preemergence: Apply prior to weed emergence.  Postemergence: When weeds are already emerged, apply Valtera as a tank mix <sup>3</sup> with a glyphosate product, present as potassium salt, at 900 g a.i./ha.

<sup>1</sup>: Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup>: The duration of residual control may be reduced with 140 g/ha in medium textured soils <5% in OM.

<sup>3</sup>: Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

## **DIRECTIONS FOR USE IN CHICKPEA**

Valtera Herbicide offers residual control of susceptible broadleaf and grass weeds listed on this label and assists in the control of acetolactate synthase (ALS) resistant weeds. The length of residual control is dependent on the application rate as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase and on soils of high organic matter and/or high clay content.

Moisture is necessary to activate Valtera Herbicide in soil for residual weed control. Dry weather following applications of Valtera Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, Valtera Herbicide will control susceptible germinating weeds. Valtera Herbicide may not control weeds that germinate after application but before an activating rainfall/irrigation or plants that germinate through cracks resulting from dry soil.

When adequate moisture is not received after a Valtera Herbicide application, weed

control may be improved by irrigation with at least ½ to 1 cm of water. Control will be reduced if there is mechanical incorporation into the soil or if emerged weeds are controlled by cultivation.

Do not perform any tillage operations after application or weed control will be reduced.

Apply only once during a single growing season.

Do not apply by air. Apply using ground application equipment only.

## APPLICATION TIMING

### Preemergence Applications (Spring)

Valtera Herbicide provides preemergence control of susceptible weeds in chickpea. Apply Valtera Herbicide with ground equipment prior to planting or within 3 days after planting and prior to emergence. Application after the chickpeas have begun to crack, or are emerged, will result in severe crop injury.

### Burndown Applications (Spring and Fall)

Valtera Herbicide, applied as part of a burndown program, may be used for residual weed control where chickpeas will be planted directly into previous crop residues. For control of emerged weeds, tank mix with glyphosate, present as isopropyl amine or potassium salt. Reduced weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

For fall burndown: Application should be made in the fall, just before freeze-up and when winter annuals and perennial weeds are still growing to allow for optimum herbicide absorption and activity. Applications made after a killing frost will result in reduced perennial and winter annual weed control. Do not apply to snow covered or frozen soil. Abnormally warm winters may reduce the length of weed control observed in the spring.

<b>CHICKPEA – Application Rates and Weed Claims for FALL APPLICATION</b>			
<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE (g/ha)</b>	<b>COMMENTS</b>
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> )	Coarse- textured, with <5% organic matter	140	Preemergence: Apply prior to weed emergence.
Common lamb's-quarters ( <i>Chenopodium album</i> ) Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum ptycanthum</i> ) Kochia ( <i>Kochia scoparia</i> ) including Group 2, 4, and 9 resistant kochia	Medium- textured, with <5% organic matter	210	Postemergence: When weeds are already emerged, apply Valtera as a tank mix <sup>2</sup> a glyphosate product, present as isopropyl amine or potassium salt, at 1.2 kg a.i./ha.
Canada fleabane ( <i>Conyza canadensis</i> ) Common chickweed ( <i>Stellaria media</i> ) Palmer amaranth ( <i>Amaranthus palmeri</i> ) Waterhemp, including biotypes resistant to			

herbicide groups 2, 5 and 9  <i>Suppression only:</i> Green foxtail ( <i>Setaria viridis</i> ) Volunteer canola ( <i>Brassica napus</i> ) including glyphosate, glufosinate and imidazolinone tolerant varieties			
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<sup>1</sup>: Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup>: Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

<b>CHICKPEA – Application Rates and Weed Claims for SPRING APPLICATION</b>			
<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE<sup>2</sup> (g/ha)</b>	<b>COMMENTS</b>
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> ) Common lamb’s-quarters ( <i>Chenopodium album</i> ) Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum ptycanthum</i> ) Kochia ( <i>Kochia scoparia</i> ) including Group 2, 4, and 9 resistant kochia  Canada fleabane ( <i>Conyza canadensis</i> ) Common chickweed ( <i>Stellaria media</i> ) Palmer amaranth ( <i>Amaranthus palmeri</i> ) Waterhemp, including biotypes resistant to herbicide groups 2, 5 and 9  <i>Suppression only:</i> Green foxtail ( <i>Setaria viridis</i> ) Volunteer canola ( <i>Brassica napus</i> ) including glyphosate, glufosinate and imidazolinone tolerant varieties	Coarse- textured and medium-textured, with <5% organic matter	140	Preemergence: Apply prior to weed emergence.  Postemergence: When weeds are already emerged, apply Valtera as a tank mix <sup>3</sup> a glyphosate product, present as isopropyl amine or potassium salt, at 1.2 kg a.i./ha.

<sup>1</sup>: Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup>: The duration of residual control may be reduced with 140 g/ha in medium textured soils <5% in OM.

<sup>3</sup>: Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

**DIRECTIONS FOR USE IN LENTIL [Small Red and Large Green Varieties]**

Valtera Herbicide offers residual control of susceptible broadleaf and grass weeds listed on this label and assists in the control of acetolactate synthase (ALS) resistant weeds. The length of residual control is dependent on the application rate as well as on rainfall and

temperature conditions. Length of residual control will decrease as temperature and precipitation increase and on soils of high organic matter and/or high clay content.

Moisture is necessary to activate Valtera Herbicide in soil for residual weed control. Dry weather following applications of Valtera Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, Valtera Herbicide will control susceptible germinating weeds. Valtera Herbicide may not control weeds that germinate after application but before an activating rainfall/irrigation or plants that germinate through cracks resulting from dry soil.

When adequate moisture is not received after a Valtera Herbicide application, weed control may be improved by irrigation with at least ½ to 1 cm of water. Control will be reduced if there is mechanical incorporation into the soil or if emerged weeds are controlled by cultivation.

Do not perform any tillage operations after application or weed control will be reduced.

Apply only once during a single growing season.

Do not apply by air. Apply using ground application equipment only.

## **APPLICATION TIMING**

### **Fall Burndown Applications (With Glyphosate)**

Valtera Herbicide, applied as part of a burndown program, may be used for residual weed control where lentils will be planted directly into previous crop residues. For control of emerged weeds, tank mix with glyphosate, present as isopropyl amine or potassium salt. Reduced weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

Application should be made in the fall, just before freeze-up and when winter annuals and perennial weeds are still growing to allow for optimum herbicide absorption and activity. Applications made after a killing frost will result in reduced perennial and winter annual weed control. Do not apply to snow covered or frozen soil. Abnormally warm winters may reduce the length of weed control observed in the spring.

## **CROP TOLERANCE**

Lentil varieties vary in their tolerance to Valtera Herbicide. Testing has shown that small-seeded red and large-seeded green varieties are most tolerant to applications of Valtera Herbicide. Other seed classes of lentils should not be planted into areas treated with Valtera Herbicide.

Environmental conditions, such as saturated soils, and abnormally cool, wet weather after seeding may also increase lentil injury following a fall application of Valtera Herbicide. Valtera Herbicide is a very active herbicide and the user should exercise caution until gaining familiarity with this product.

<b>LENTIL [Small Red and Large Green Varieties] – Application Rates and Weed Claims for FALL APPLICATION</b>
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<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE (g/ha)</b>	<b>COMMENTS</b>
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> ) Common lamb's-quarters ( <i>Chenopodium album</i> ) Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum ptycanthum</i> ) Kochia ( <i>Kochia scoparia</i> ) including Group 2, 4, and 9 resistant kochia	Coarse- textured, with <5% organic matter	140	Preemergence: Apply prior to weed emergence.
Canada fleabane ( <i>Conyza canadensis</i> ) Common chickweed ( <i>Stellaria media</i> ) Waterhemp, including biotypes resistant to herbicide groups 2, 5 and 9 Palmer amaranth ( <i>Amaranthus palmeri</i> )  <i>Suppression only:</i> Green foxtail ( <i>Setaria viridis</i> ) Volunteer canola ( <i>Brassica napus</i> ) including glyphosate, glufosinate and imidazolinone tolerant varieties	Medium-textured, with <5% organic matter	210	Postemergence: When weeds are already emerged, apply Valtera Herbicide as a tank mix <sup>2</sup> a glyphosate product, present as isopropyl amine or potassium salt, at 1.2 kg a.i./ha.

<sup>1</sup>: Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup>: Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

### **DIRECTIONS FOR USE AS A HARVEST AID IN CROP SUBGROUP 6C: Dried Shelled Pea and Bean (except soybean)**

#### **General Restriction and Limitations**

- For use as a desiccant, do not apply more than 105-140 g/ha of Valtera Herbicide.
- Do not apply more than a single application of 140 g/ha of Valtera Herbicide during a growing season.
- Do not harvest within 5 days of application.
- Do not plant canola a minimum of 9 months after using this product as harvest aid. Refer to previous Rotational Restrictions table for specific instructions.

#### **Application Rate and Timing – Valtera Herbicide + Adjuvant**

Apply Valtera Herbicide at a rate of 105-140 g/ha plus methylated seed oil (MSO Concentrate) at a rate of 2.5 L/ha when crop is physiologically mature and a minimum of 80% of the pods are yellow to tan in colour and 20% are yellow in colour. If crop is treated too early, a reduction in seed quality may occur. Do not spray Valtera Herbicide on any area of the field with a significant amount of plants with green colour. May also be applied with Carrier adjuvant at 0.5 L / 100 L water volume OR Nufarm Enhance non-ionic spray adjuvant at 1.25 - 2.5L/1000L; use the higher rate with denser crop canopies and/or with higher weed pressures. A spray grade nitrogen source (either ammonium sulphate at 2.24-

2.8 kg/ha or a 28-32% nitrogen solution at 1-2 L/ha) may be added to the spray mixture along with adjuvant to enhance desiccation. The addition of a nitrogen source does not replace the need for an adjuvant. Crop can be harvested 5 days after application.

**Application Rate and Timing – Valtera Herbicide + Glyphosate**

Valtera Herbicide plus adjuvant treatment does not desiccate large weeds present in the field; tank mixing Valtera Herbicide 105-140 g/ha and an adjuvant with glyphosate present as isopropyl amine or potassium salt at 900 g a.i./ha increases control of emerged weeds and aids in harvest. Refer to glyphosate tankmix partner label for applicable pre-harvest intervals. DO NOT apply glyphosate to crops if grown for seed production.

To ensure thorough coverage, use 140-280 L spray solution per hectare. Nozzle selection should meet manufacturer's recommendation for post-emergence application.

<b>CROP SUBGROUP 6C: Dried Shelled Pea and Bean (including Bean (Lupinus spp.), Bean (Phaseolus spp.), Bean (Vigna spp.), Broad bean [fava bean], Chickpea, Guar, Lablab bean, Lentil, Pea (Pisum spp.), Pigeon pea– Application Rates</b>	
<b>TREATMENT + RATE</b>	<b>COMMENTS</b>
Valtera Herbicide at 105-140 g/ha + Adjuvant  (Carrier adjuvant at 0.5 L / 100 L water volume OR Nufarm Enhance non-ionic spray adjuvant, or other non-ionic surfactants, at 1.25 - 2.5L/1000L OR Methylated seed oil (MSO Concentrate) at a rate of 2.5 L/ha	Do not harvest within 5 days of application.  Do not subsequently seed canola to treatment area for a minimum of 9 months (see Rotational Restrictions table).  Will not desiccate large weeds present in the field
Valtera Herbicide 105-140 g/ha + Adjuvant (see above) + Glyphosate, present as isopropyl amine or potassium salt at 900 g a.i./ha	Refer to glyphosate tankmix partner label for applicable pre-harvest intervals.  Do not subsequently seed canola to treatment area for a minimum of 9 months (See Rotational Restrictions table).  Increases control of emerged weeds, depending on type and canopy size, and aids in harvest.  DO NOT apply glyphosate to crops if grown for seed production.

**DIRECTIONS FOR USE AS A HARVEST AID IN WHEAT**

**General Restriction and Limitations**

- For use as a desiccant, do not apply more than 105-140 g/ha of Valtera Herbicide.

- Do not harvest within 10 days of application.
- Do not apply more than a single application of 140 g/ha of Valtera Herbicide during a growing season.
- Do not plant canola a minimum of 9 months after using this product as harvest aid. Refer to previous Rotational Restrictions table for specific instructions.

#### **Application Rate and Timing – Valtera Herbicide + Adjuvant**

Apply Valtera Herbicide at a rate of 140 g/ha plus Nufarm Enhance non-ionic spray adjuvant, or other non-ionic spray adjuvants, at 1.25 - 2.5L/1000L, after the crop reaches the hard dough stage and grain has no more than 30% moisture; use the higher rate with denser crop canopies and/or with higher weed pressures. May also be applied with methylated seed oil (MSO Concentrate) at a rate of 2.5 L/ha. A spray grade nitrogen source (either ammonium sulphate at 2.24-2.8 kg/ha or a 28-32% nitrogen solution at 1-2 L/ha) may be added to the spray mixture along with adjuvant to enhance desiccation. The addition of a nitrogen source does not replace the need for an adjuvant. If crop is treated too early, a reduction in seed quality may occur. Crop can be harvested 10 days after application.

#### **Application Rate and Timing – Valtera Herbicide + Glyphosate**

Valtera Herbicide plus adjuvant treatment does not desiccate large weeds present in the field; tank mixing Valtera Herbicide 140 g/ha and an adjuvant with glyphosate present as isopropyl amine or potassium salt at 900 g a.i./ha increases control of emerged weeds and aids in harvest. Refer to glyphosate tankmix partner label for applicable pre-harvest intervals.

To ensure thorough coverage, use 140-280 L spray solution per hectare. Nozzle selection should meet manufacturer's recommendation for post-emergence application.

### **DIRECTIONS FOR USE IN SUNFLOWERS**

Valtera Herbicide offers residual control of susceptible broadleaf and grass weeds listed on this label and assists in the control of acetolactate synthase (ALS) resistant weeds. The length of residual control is dependent on the application rate as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase and on soils of high organic matter and/or high clay content.

Moisture is necessary to activate Valtera Herbicide in soil for residual weed control. Dry weather following applications of Valtera Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, Valtera Herbicide will control susceptible germinating weeds. Valtera Herbicide may not control weeds that germinate after application but before an activating rainfall/irrigation or plants that germinate through cracks resulting from dry soil.

When adequate moisture is not received after a Valtera Herbicide application, weed control may be improved by irrigation with at least ½ to 1 cm of water. Control will be reduced if there is mechanical incorporation into the soil or if emerged weeds are controlled by cultivation.



Do not perform any tillage operations after application or weed control will be reduced.

Apply only once during a single growing season.

Do not apply by air. Apply using ground application equipment only.

The maximum amount of product handled per day using groundboom equipment is 43 kg.

## APPLICATION TIMING

### Preemergence Applications (Spring)

Valtera Herbicide provides preemergence control of susceptible weeds in sunflower. Apply Valtera Herbicide with ground equipment a minimum of 30 days prior to planting. At least 2.5 cm of rainfall or irrigation must occur between application of Valtera Herbicide and planting. Do not apply to frozen or snow covered soils.

### Burndown Applications (Spring and Fall)

Valtera Herbicide, applied as part of a burndown program, may be used for residual weed control where sunflowers will be planted directly into previous crop residues. For control of emerged weeds, tank mix with glyphosate, present as isopropyl amine or potassium salt. Reduced weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

For fall burndown: Application should be made in the fall, just before freeze-up and when winter annuals and perennial weeds are still growing to allow for optimum herbicide absorption and activity. Applications made after a killing frost will result in reduced perennial and winter annual weed control. Do not apply to snow covered or frozen soil. Abnormally warm winters may reduce the length of weed control observed in the spring.

Sunflower – Application Rates and Weed Claims for SPRING APPLICATION			
WEEDS CONTROLLED	Soil Type <sup>1</sup>	RATE <sup>2</sup> (g/ha)	COMMENTS
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> ) Common lamb's-quarters ( <i>Chenopodium album</i> ) Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum ptycanthum</i> ) Kochia ( <i>Kochia scoparia</i> ) Canada fleabane ( <i>Conyza canadensis</i> ) Common chickweed ( <i>Stellaria media</i> )  Suppression only: Green foxtail ( <i>Setaria viridis</i> ) Volunteer canola ( <i>Brassica napus</i> ) including glyphosate tolerant varieties	Coarse- textured and medium-textured, with <5% organic matter	140	Preemergence: Apply prior to weed emergence.  Postemergence: When weeds are already emerged, apply Valtera as a tank mix <sup>3</sup> a glyphosate product, present as isopropyl amine or potassium salt, at 1.2 kg a.i./ha.

<sup>1</sup>: Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup>. The duration of residual control may be reduced with 140 g/ha in medium textured soils <5% in OM.

<sup>3</sup>. Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

<b>Sunflower – Application Rates and Weed Claims for FALL APPLICATION</b>			
<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE (g/ha)</b>	<b>COMMENTS</b>
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> )	Coarse- textured, with <5% organic matter	140	Preemergence: Apply prior to weed emergence.  Postemergence: When weeds are already emerged, apply Valtera as a tank mix <sup>2</sup> a glyphosate product, present as isopropyl amine or potassium salt, at 1.2 kg a.i./ha.
Common lamb's-quarters ( <i>Chenopodium album</i> ) Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum ptycanthum</i> ) Kochia ( <i>Kochia scoparia</i> ) Canada fleabane ( <i>Conyza canadensis</i> ) Common chickweed ( <i>Stellaria media</i> )	Medium- textured, with <5% organic matter	210	
<i>Suppression only:</i> Green foxtail ( <i>Setaria viridis</i> ) Volunteer canola ( <i>Brassica napus</i> ) including glyphosate tolerant varieties			

<sup>1</sup>: Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup>: Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

## **DIRECTIONS FOR USE AS A HARVEST AID IN SUNFLOWER**

### **General Restriction and Limitations**

- For use as a desiccant, apply 105-140 g/ha of Valtera Herbicide.
- Do not harvest within 5 days of application.
- Do not apply more than a single application of 210 g/ha of Valtera Herbicide during a growing season.
- Do not plant canola a minimum of 9 months after using this product as harvest aid. Refer to previous Rotational Restrictions table for specific instructions.

### **Application Rate and Timing – Valtera Herbicide + Adjuvant**

Apply Valtera Herbicide at a rate of 105-140 g/ha plus Nufarm Enhance non-ionic spray adjuvant, or other non-ionic spray adjuvants, at 1.25 - 2.5L/1000L, when crop is mature (when seed is 35% moisture or less), For many varieties, this is when the backs of heads are turning yellow and the bracts are turning brown. Use the higher rate with denser crop canopies and/or with higher weed pressures. May also be applied with methylated seed oil (MSO Concentrate) at a rate of 2.5 L/ha. A spray grade nitrogen source (either ammonium sulphate at 2.24-2.8 kg/ha or a 28-32% nitrogen solution at 1-2 L/ha) may be added to the spray mixture along with adjuvant to enhance desiccation. The addition of a nitrogen source does not replace the need for an adjuvant. If crop is treated too early, a reduction in seed quality may occur. Crop can be harvested 5 days after application.

To ensure thorough coverage, use 140-280 L spray solution per hectare. Nozzle selection should meet manufacturer's recommendation for post-emergence application.

**DIRECTIONS FOR USE IN BARE GROUND NON-CROP AREAS**

Valtera Herbicide, when used as directed, can be used on farms for non-selective vegetation control to maintain bare ground non-crop areas that must be kept weed-free.

Moisture is necessary to activate Valtera Herbicide in soil for residual weed control. Dry weather following applications of Valtera Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, Valtera Herbicide will control susceptible germinating weeds. Valtera Herbicide may not control weeds that germinate after application but before an activating rainfall/irrigation or weeds that germinate through cracks resulting from dry soil.

When adequate moisture is not received after a Valtera Herbicide application, weed control may be improved by irrigation with at least ½ to 1 cm of water. Weed control will be reduced if there is mechanical incorporation into the soil or if emerged weeds are controlled by cultivation.

Valtera Herbicide offers residual control of susceptible broadleaf and grass weeds listed on this label and assists in the control of acetolactate synthase (ALS) resistant weeds. The length of residual control is dependent on application rate as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase and on soils with high organic matter and/or high clay content.

- Do not apply by air. Ground application only.
- Do not apply to fine-textured soils.
- Do not apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.
- Do not apply within 100 metres of non-dormant pears.
- Do not apply to powdery soils or soils that are susceptible to wind displacement unless irrigation can be applied immediately after application.
- Apply only once per growing season

<b>BARE GROUND NON-CROP AREAS - Application Rates and Weed Claims</b>			
<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE (g/ha)</b>	<b>COMMENTS</b>
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> )	Coarse-textured, with <5% organic matter	280	Preemergence: Apply prior to weed emergence, in sufficient water for uniform coverage.  Postemergence: When weeds are already emerged, apply <b>Valtera</b>
Common lamb's-quarters ( <i>Chenopodium album</i> ) Green foxtail ( <i>Setaria viridis</i> ) Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum</i> )	Medium-textured, with <5% organic matter	420	

<p><i>ptycanthum</i>)  Kochia (<i>Kochia scoparia</i>) including Group 2, 4, and 9 resistant kochia</p> <p>Canada fleabane (<i>Conyza canadensis</i>)  Common chickweed (<i>Stellaria media</i>)  Volunteer canola (<i>Brassica napus</i>) including glyphosate, glufosinate and imidazolinone tolerant varieties  Waterhemp, including biotypes resistant to herbicide groups 2, 5 and 9  Palmer amaranth (<i>Amaranthus palmeri</i>)</p>			<p><b>Herbicide</b> as a tank mix<sup>2</sup> with a glyphosate, product present as isopropyl amine or potassium salt, at 1.2 kg a.i./ha</p>
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<sup>1</sup>: Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup>: Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

Valtera is a trademark of Valent U.S.A. LLC.

{Base Container Label}

GROUP	14	HERBICIDE
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**Valtera™ Herbicide**

HERBICIDE  
Water Dispersible Granules  
COMMERCIAL

Pre-emergence weed control in soybean, field corn, spring wheat, chickpea, field pea, lentils [small red and large green varieties], sunflowers and to maintain bare ground non-crop areas, including bare ground non-crop areas on farms. Also for harvest aid for dried shelled pea and bean (except soybean) and wheat.

**ACTIVE INGREDIENT:**

Flumioxazin.....51.1%

**READ THE LABEL BEFORE USE**

Warning: This product contains the allergen sulfite.

REGISTRATION NO.: 29230  
PEST CONTROL PRODUCTS ACT



**CAUTION - POISON**

**Net Contents: 2.27 kg**

Valent Canada, Inc.  
3-728 Victoria Road South  
Guelph, Ontario, Canada  
N1L 1C6  
(519)-767-9262  
www.valent.ca

## 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.

## FIRST AID

- 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.
- 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 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.

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

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL OR POISONING CALL  
1-800-682-5368***

## TOXICOLOGICAL INFORMATION

There is no specific antidote for this product. Apply symptomatic therapy.

## PRECAUTIONS

**KEEP OUT OF REACH OF CHILDREN.** Avoid breathing dust and spray mist. Avoid contact with skin, eyes or clothing. Harmful if inhaled.

Follow mixer/loader and applicator scenario on attached label.

In addition, wear coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes, goggles or faceshield, during clean-up and repair activities.

## **ENVIRONMENTAL PRECAUTIONS**

This product is toxic to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. Toxic to small wild mammals. Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

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 strip between the treated area and the edge of the water body.

## **DISPOSAL**

**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 container unsuitable for further use.

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

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.

## **STORAGE**

Do not contaminate water, food or feed by storage. Keep pesticide in original container. Store in a cool, dry, secure place. Do not put formulation or dilute spray solution into food or drink containers. Do not store or transport near feed or food. Not for use or storage in or around the home. To prevent contamination, store this product away from food or feed.

Valtera is a trademark of Valent U.S.A. LLC.