

2025-0123
2025-01-13
Last approved label 2024-5680, 2024-11-27

Container Label

GROUP	4	HERBICIDE
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VIKING™ Kalmar Herbicide

EMSULFIABLE CONCENTRATE

COMMERCIAL (AGRICULTURAL)

VIKING Kalmar Herbicide provides postemergence control of a broad spectrum of broadleaf weeds including cleavers, kochia and wild buckwheat in spring wheat, durum wheat, winter wheat and spring barley.

REGISTRATION NO. 35353 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: fluroxypyr, present as 1-methylheptyl ester 90 g/L
2,4-D, present as 2-ethylhexyl ester 360 g/L

NET CONTENTS: 1 L – 1020 L

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN



SKIN IRRITANT

**In case of emergency call the 24 hour Emergency Response Number 1-800-424-9300
or 1-703-527-3887**

Viking Crop Production Partners Inc.

Box 18033
RPO Shawnessy
Calgary, AB. T2Y 0K3
1-587-743-1029

Viking (TM) is a trademark of Viking Crop Production Partners Inc.

PRECAUTIONS

HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN KEEP OUT OF REACH OF CHILDREN

May irritate the skin. Avoid contact with skin. Avoid breathing spray mist.

For agricultural/crop scenarios: **DO NOT** enter or allow workers entry into treated areas during the restricted-entry interval (REI) of 12 hours.

DO NOT use in residential areas. Residential areas are defined as any use site where bystanders including children could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other area where the general public including children could be exposed.

Apply only when potential for drift to areas of human habitation and areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

PROTECTIVE CLOTHING AND EQUIPMENT

Application with Groundboom and Aerial Equipment

- Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair.
- Gloves are not required during application within a closed cab and/or cockpit.
- Rinse gloves before removal.

Mixing – Transfer System

- When handling more than 736 L of **VIKING Kalmar Herbicide** per person per day, a closed mixing-transfer system is required. A closed system means removing a pesticide from its original container, rinsing, mixing, diluting, and transferring the pesticide through connecting hoses and couplings that prevent exposure to the pesticide.

OPERATOR USE PRECAUTIONS

- Wear freshly laundered clothing and clean protective equipment daily.
- Rinse gloves before removal.
- Wash hands with soap and water before eating, drinking, using tobacco or using the toilet.
- If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.
- After using this product, remove clothing and launder separately, and promptly and thoroughly wash hands and exposed skin with soap and water. Follow manufacturer's instructions for cleaning personal protective clothing and equipment. If no such instructions for washables are provided, use detergent and hot water. Keep and wash personal protective equipment separate from household laundry.
- After work, remove all clothing and shower immediately using soap and water.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE. Do not use or store near heat or open flame.

FIRST AID

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

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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

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

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

TOXICOLOGICAL INFORMATION

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient. This product may cause mild irritation to the eyes. Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness or nausea. Treat symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

AGRICULTURAL CHEMICAL

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

ENVIRONMENTAL PRECAUTIONS

TOXIC to non-target terrestrial plants and aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

This product contains active ingredients and aromatic petroleum distillates which are toxic to aquatic organisms.

LEACHING

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

STORAGE

Store in original containers in a secure, dry heated storage. If product is frozen, bring to room temperature and agitate before use. Do not allow contamination of seeds, plants, fertilizers or other pesticides. Store this product away from food or feed. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

DISPOSAL

Recyclable Containers:

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

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
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Refillable Containers:

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

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

Booklet Label

GROUP

4

HERBICIDE



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GENERAL INFORMATION

VIKING Kalmar Herbicide is a selective postemergence herbicide for the control of broadleaf weeds in spring wheat, durum wheat, winter wheat and spring barley (not underseeded to legumes). **VIKING Kalmar Herbicide** provides control of hard-to-kill annual broadleaf weeds such as cleavers, wild buckwheat and kochia (including populations resistant to Group 2 herbicides). The components of **VIKING Kalmar Herbicide** move within the plant to control exposed and underground plant tissues. It mimics naturally occurring plant hormones which control weeds by disrupting normal plant growth patterns. Symptoms of effect include epinasty (twisting of the stems) and swollen nodes.

GENERAL USE PRECAUTIONS

READ THE ENTIRE LABEL BEFORE USE. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. DO NOT APPLY TO CROPS UNDERSEEDDED WITH LEGUMES.

To minimize spray drift to non-target areas

1. Minimize drift by using sufficient spray volume to ensure coverage with ASAE coarse droplet size spray.
2. Keep ground-driven spray booms as low as possible and not exceeding 60 cm above the target surface.
3. Spray when wind is less than 8 km/hr.
4. Do not spray in dead calm near sensitive plants. The “cloud” of suspended droplets may drift onto sensitive plants when the wind comes up. Spray only when wind is blowing away from a sensitive crop, shelterbelt or garden.
 - Extreme growing conditions such as drought or near freezing temperatures prior to, at and following time of application may reduce weed control and increase the risk of crop injury at all stages of growth.
 - Wet foliage at the time of application may result in reduced weed control.
 - Over-application may result in crop injury.
 - Make only 1 application per year.
 - Do not apply through any type of irrigation system.

Sprayer clean-out

To avoid injury to desirable plants, thoroughly clean equipment used to apply this product before re-use or using it to apply other chemicals.

1. Immediately after spraying, completely drain the sprayer tank. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. First rinse:
 - Spray the inside of tank with clean water and fill the sprayer with at least one tenth of the spray tank volume.
 - Agitate and circulate for 15 minutes, and flush through booms and hoses.
 - Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.

- Drain tank completely.
3. Second rinse:
- Fill the tank with clean water.
 - Add All Clear Spray Tank Decontaminator as per manufacturer's recommendations while filling the tank with clean water.
 - Agitate and then flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full. Allow to stand for 15 minutes with agitation. Flush the solution out of the spray tank through the spray booms. Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
 - If possible, let the solution stand in the sprayer tank and booms for an extended period of time, overnight if possible.
 - After flushing the boom and hoses, drain tank completely.
 - Remove nozzles and screens and clean separately with a cleaning agent or an ammonia solution (100 mL in 10 L water).
4. Third rinse:
- Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume.
 - Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
 - Drain tank completely.

SENSITIVE PLANTS

Do not apply **VIKING Kalmar Herbicide** directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, canola, flowers and ornamentals, lentil, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes or tobacco.

CROP ROTATIONS

Fields previously treated with **VIKING Kalmar Herbicide** can be seeded the following year to barley, canola, flax, forage grasses, lentils, mustard, oats, peas, rye, and wheat or fields can be summerfallowed.

PRE-HARVEST/GRAZING INTERVALS

- Do not permit lactating dairy animals to graze fields within 7 days after application.
- Do not harvest forage or cut hay within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.
- Do not harvest the treated mature crop within 60 days after application.

TANK MIXTURES

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Viking Crop Production Partners Inc. at 1-587-743-1029 for information before applying any tank mix that is not specifically recommended on this label.

DIRECTIONS FOR USE

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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.

Aerial application

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

VIKING Kalmar Herbicide ALONE

Apply **VIKING Kalmar Herbicide** in a uniform spray with ground or aerial application equipment (see Application Directions sections) containing 1.1 L/ha of **VIKING Kalmar Herbicide**.

Timing of Application

Apply postemergence when weeds are in the seedling stage (2-4 leaf, unless otherwise noted), and actively growing, and when spring wheat, durum wheat and spring barley are in the 4-leaf to flag-leaf stage. Apply to winter wheat in the spring from the 3-tiller stage to just before the flag leaf stage. Application before the 4-leaf stage of wheat and barley may cause severe twisting of leaves and leaf, stem and head deformities which may reduce yield up to 10%. Do not apply later than the flag-leaf stage. Maximum 1 application per year.

Crops Registered

- spring wheat
- durum wheat
- winter wheat
- spring barley

Weeds Controlled

bluebur	hemp-nettle (2-6 leaf stage)	round-leaved mallow (1-6 leaf)
burdock	hoary cress*	shepherd's-purse
canola (volunteer)	kochia**	stork's-bill (1-8 leaf)
cleavers (1-8 whorls)	lamb's-quarters	stinkweed
clovers (sweet)	mustards (except green tansy,	sunflower (annual)
cocklebur	dog & grey tansy)	vetch
flixweed	plantain	wild buckwheat (1-6 leaf)
field horsetail*	prickly lettuce	wild radish
goat's-beard	ragweed	volunteer flax (1-12 cm)

Weeds Suppressed

common chickweed** (up to 8 cm)	redroot pigweed	sow-thistle (perennial)*
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* Top growth control only.

** Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

NOTE: VIKING Kalmar Herbicide activity is influenced by weather conditions. Optimum activity requires active crop and weed growth. The temperature range for optimum activity is 12°C to 24°C. Reduced activity will occur when temperatures are below 8°C or above 27°C. Frost before application (3 days) or shortly after

(3 days) may reduce weed control and crop tolerance. Weed control may be reduced during stress conditions, e.g. drought, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

APPLICATION DIRECTIONS (GROUND AND AERIAL APPLICATIONS)

(1) Ground Application

Using ground equipment, apply **VIKING Kalmar Herbicide** alone or with tank mix partners as a broadcast treatment. Apply **VIKING Kalmar Herbicide** alone at the recommended rates in a spray volume of 50-100 L water/ha.

(2) Aerial Application

Do not use human flaggers.

Use **VIKING Kalmar Herbicide** alone or tank mixed with a product registered for aerial application as a broadcast treatment. Apply **VIKING Kalmar Herbicide** alone at the recommended rates in a spray volume of 30-50 L water/ha.

Apply only by fixed-wing or rotary aircraft equipment, which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing should be laundered regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-587-743-1029 or obtain technical advice from the distributor or your provincial/territorial agricultural representative. Application of this specific product must meet and/or conform to the following:

- The interaction of many equipment-and-weather-related factors determine the potential for spray drift.
- Users are responsible for considering all these factors when making decisions.

- The following drift management requirement must be followed to avoid off-target drift movement from aerial applications: Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

TANK MIX OF VIKING Kalmar Herbicide WITH 2,4-D ESTER HERBICIDE

To control or suppress the following additional weeds apply a uniform spray containing 1.1 L/ha of **VIKING Kalmar Herbicide** and 140 g a.e./ha of 2,4-D ester herbicide (equivalent to 0.2 L/ha of 2,4-D LV 700) in a total spray volume of 50-100 L water/ha for ground application and in a total spray volume of 30-50 L water/ha for aerial application.

Additional Weeds Controlled

blue lettuce*	gumweed	redroot pigweed
dandelion**	hairy galinsoga	Russian thistle
docks	hedge bindweed	smartweed
dog mustard	lady's-thumb	tansy mustard
field bindweed*	leafy spurge*	tartary buckwheat
field pepperglass	oak-leaved goosefoot	wild buckwheat (1-8 leaf)

Additional Weeds Suppressed

common chickweed*** (up to 8 cm)	sow-thistle (perennial)*
Canada thistle*	sow-thistle (annual)

* Top growth control only.

** Spring rosettes.

*** Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required number of jugs of **VIKING Kalmar Herbicide**.
4. If required, Add the required number of jugs of 2,4-D ester herbicide.
5. Complete filling the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
6. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g., canola and legumes).
7. Follow sprayer clean-up directions as listed.

TANK MIXES WITH VIKING KALMAR HERBICIDE FOR ANNUAL GRASS CONTROL

Tank mixtures of **VIKING Kalmar Herbicide** with other herbicides will provide control of additional weeds. These tank mixtures, excluding Simplicity, may include the additional 2,4-D ester herbicide if necessary.

Tank Mix Combinations with VIKING Kalmar Herbicide for Annual Grass Control

Herbicide Tank Mix Partner	Crops Registered	Rate of Herbicide Tank Mix Partner	Adjuvant Rate	Additional Weeds
Liquid Achieve™ SC Herbicide	spring wheat, durum wheat, winter wheat, spring barley	0.5 L/ha	Turbocharge Adjuvant 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail, wild oats
Marengo® Herbicide	spring wheat, durum wheat, winter wheat, spring barley	0.5 L/ha	Marengo® Adjuvant or Intake™ Adjuvant	green foxtail, wild oats

			0.5 L/100 L of spray volume (0.5% v/v)	
Simplicity™	spring wheat, durum wheat, winter wheat	0.5 L/ha	None required	Barnyard grass (1-5 leaf), Japanese brome (1-6 leaf), Wild oats (up to 4 leaf 2 tiller), Chickweed (up to 10 cm), Red root pigweed (1-8 leaf), Smartweed (1-5 leaf)
Simplicity GoDRI™ Herbicide	spring wheat, durum wheat, winter wheat	52 - 70 g/ha	None required	Consult label

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Viking Crop Production Partners Inc. under the User Requested Minor Use Label Expansion program. For these uses, Viking Crop Production Partners Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

DIRECTIONS FOR USE

SEEDLING AND ESTABLISHED TALL FESCUE GROWN FOR SEED: Make one application per year, as a ground application only, for control of labelled weeds. Apply from the 4-leaf stage to flag leaf stage in a minimum of 100 L water/ha. Do not harvest for forage or do not cut hay for forage.

Application rates: VIKING Kalmar Herbicide: 1.1 L/ha alone or in tank mix with 140 g a.e./ha of 2,4-D ester herbicide (equivalent to 0.2 L/ha of 2,4-D LV 700)

CONTROL OF LABELLED WEEDS IN SEEDLING AND ESTABLISHED FORAGE GRASSES GROWN FOR SEED

Creeping Red Fescue
Intermediate Wheat Grass
Crested Wheat Grass
Meadow Brome Grass
Smooth Brome Grass
Timothy

Apply one application per year in a spray volume of 100-200 L/ha to control labelled weeds in seedling (4-leaf to flag leaf) or established forage grasses. Application should be made postemergence when weeds are in the 2-4 leaf stage. Apply in a broadcast spray using a hydraulic boom ground sprayer.

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- Do not harvest for forage or do not cut hay for forage.
- Do not harvest treated crop within 60 days after application.

Refer to the main **VIKING Kalmar Herbicide** label for additional details and instructions, including preharvest intervals, before using.

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

SPRAY BUFFER ZONES

The spray 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		Spray Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/marine Habitat of Depths:		Terrestrial habitat
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	spring wheat, durum wheat, winter wheat and spring barley (VIKING Kalmar Herbicide alone or with tank mix with 140 g a.e./ha 2,4-D ester herbicide)		1	0	1	1	3
Aerial	spring wheat, durum wheat, winter wheat and spring barley (VIKING Kalmar Herbicide alone)	Fixed Wing	5	0	1	1	95
		Rotary Wing	3	0	1	1	80
	spring wheat, durum wheat, winter wheat and spring barley (VIKING Kalmar Herbicide with tank mix with 140 g a.e./ha 2,4-D ester herbicide)	Fixed Wing	5	0	1	1	95
		Rotary Wing	3	0	1	1	80

When tank mixes are permitted, consult the labels of the tank mix partners and observe the largest (most restrictive) spray buffer zones of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels of those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the [Spray Buffer Zone Calculator](#) on the Pesticides portion of the Canada.ca website.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **VIKING Kalmar Herbicide** is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to **VIKING Kalmar Herbicide** and other Group 4 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 **VIKING Kalmar Herbicide** or other Group 4 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 Viking Crop Production Partners Inc. at 1-587-743-1029 or at www.vikingcropproduction.com.

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.

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