

2024-0913
2024-03-25

Container Label



VIKING™ Rauma Insecticide

GROUP	3	INSECTICIDE
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EMULSIFIABLE CONCENTRATE

COMMERCIAL (AGRICULTURAL)

FOR SALE FOR USE IN EASTERN CANADA, PRAIRIE PROVINCES AND BRITISH COLUMBIA ONLY

REGISTRATION NO. 35144 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: DELTAMETHRIN.....50 g/L

NET CONTENTS: 1-200 L

READ LABEL AND ATTACHED BOOKLET BEFORE USING



SKIN IRRITANT. POTENTIAL SKIN SENSITIZER.

TRIPLE RINSE

**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

KEEP OUT OF REACH OF CHILDREN

Fatal if swallowed or absorbed through skin. Causes skin irritation. DO NOT get on skin or on clothing. May be fatal if inhaled. Avoid breathing vapour or spray mist. Wash thoroughly after using and before eating, drinking or smoking. Keep in original container during storage. Do not contaminate or store near feeds, seeds or foodstuffs. Keep away from fire, open flame, or other sources of heat.

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 or cockpit. In addition, wear goggles/faceshield and a respirator with a NIOSH-approved organic vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides, when handling or spraying.

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

DO NOT use in greenhouses.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.

ENVIRONMENTAL PRECAUTIONS

TOXIC TO aquatic organisms. This product contains an active ingredient and petroleum distillates which are TOXIC to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to small wild mammals.

TOXIC to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinators during Pesticide Spraying – Best Management Practices" on Canada.ca. Follow crop specific directions for application timing.

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. Deltamethrin may impact predatory and parasitic arthropod species used in Integrated Pest Management (IPM) programs within the treatment area. Unsprayed refugia for beneficial species of at least 1 metre from treatment area will help maintain beneficial arthropod populations.

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.

Read the portions of this label pertaining to the intended method of application carefully and completely **BEFORE APPLYING VIKING Rauma Insecticide**. AVOID APPLICATION WHEN TEMPERATURE INVERSIONS ARE PREVAILING OR DURING PERIODS OF EXCESS HEAT (for example, daytime temperatures greater than 25° C) as a reduction in control will result. Best control will be achieved when **VIKING Rauma Insecticide** is applied during the cooler portions of the day (for example early morning or at dusk).

FIRST AID

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 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.

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

TOXICOLOGICAL INFORMATION

Medical personnel should contact **1-800-424-9300/ +1-703-527-3887**. The treatment of intoxication should be symptomatic and supportive. Where the product has been ingested, carry out gastric lavage with care to prevent aspiration. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Skin exposure may cause transient sensations (tingling, burning, itching, numbness). Treat symptomatically.

STORAGE

Store this product away from food or feed. **CANNOT BE STORED BELOW FREEZING**. If stored for one year or longer, shake vigorously before using. Store the tightly closed container away from feeds, seeds, fertilizer, plants and foodstuffs. Keep in original container during storage. Keep away from fire or open flame or other sources of heat. Do not use or store in or around the home.

RECYCLABLE CONTAINER 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, rinsed container unsuitable for further use.

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

DISPOSAL OF UNUSED, UNWANTED PRODUCT

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.

DISPOSAL OF UNUSED SPRAY SOLUTION

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from water supplies, ditches and irrigation canals.

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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STORAGE

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GENERAL INFORMATION

VIKING Rauma Insecticide is not a systemic product. It controls insects through contact and/or ingestion. For maximum efficacy, it is necessary to:

- keep crop and pest under observation to be able to spray at the right moment.
- ensure that insects are contacted during spraying, especially if they are found on the underside of leaves or if the foliage is very dense.

The volumes of water may vary greatly, depending on the equipment, the crop, and cultural conditions. Actual volumes of water to be used will vary between 11 and 1000 litres per hectare.

The distribution of the product over plant surfaces must be as uniform as possible where the insects are moving and/or feeding.

DIRECTIONS FOR USE

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

To protect pollinators, follow the instructions regarding bees in the ENVIRONMENTAL PRECAUTIONS section.

Where a rate range is given in the Directions For Use, the higher rate should be utilised:

1. when the crop canopy is dense and foliage is inhibiting spray penetration.
2. when a number of insect growth stages are present (for example the larvae and adults of Colorado Potato Beetle).
3. when insect populations are very high.

Unless otherwise stated, apply **VIKING Rauma Insecticide** when insects first appear and repeat as required to maintain control. Use sufficient water to ensure thorough coverage. More water may be required when dense foliage is present and depending on the type of spray equipment used. Thorough wetting of all plants is essential for good results. It is suggested that provincial spray calendar recommendations be followed.

DO NOT apply using handheld or automated fogging, mist blower, or airblast equipment.

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

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

Field sprayer 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 8 km/h at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Air-induction nozzles must be used for the ground application of this product. 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 8 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-coarse classification. DO NOT apply under weather conditions of less than 50% relative humidity and temperatures greater than 20°C. Nozzle distribution along the spray boom length MUST NOT exceed 65% of wing- or rotorspan.

Use the rates listed below for both ground and aerial application. **VIKING Rauma Insecticide** may be applied by air only on crops specified for aerial use. See AERIAL APPLICATION section of this label for adjustment of water volumes.

SPECIAL INSTRUCTIONS FOR USE OF VIKING Rauma Insecticide ON HIGH ORGANIC (MUCK) SOILS:

In soils with high organic content (muck soils), special care in the application of **VIKING Rauma Insecticide** is necessary. Apply no more than 200 mL of product per hectare. **VIKING Rauma Insecticide** should be applied only ONCE during each crop year on muck soil prior to August 1.

AERIAL APPLICATION:

VIKING Rauma Insecticide may be applied by aircraft to Rapeseed, Canola, Mustard, Potatoes, and Sweet Corn.

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.

AERIAL 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 Application Manual, developed by the Federal/Provincial/ Territorial Committee on Pest Management and Pesticides. Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified spray buffer zones should be observed. Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

AERIAL 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 has 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 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, aircraft cockpit and vehicle cabs must be decontaminated regularly.

PRODUCT SPECIFIC PRECAUTIONS:

EXERCISE EXTREME CAUTION DURING THE AERIAL APPLICATION OF ANY INSECTICIDE, HERBICIDE OR FUNGICIDE. Drift of pesticides is not always visible with the human eye. Small droplets may drift into sensitive areas without obvious signs of danger.

Follow these directions precisely!

Apply **VIKING Rauma Insecticide** in 11 - 22 litres of water per hectare at a pressure of no less than 200 kPa. For best results, use sufficient water to ensure complete coverage. DO NOT USE RAINDROP NOZZLES. Follow directions elsewhere on label for correct rate, timing of application and harvest restrictions.

Note: Ensure that all circuits (pipes, booms, etc.) have the correct **VIKING Rauma Insecticide** /water concentration before application is started.

DO NOT apply **VIKING Rauma Insecticide** by aircraft when the wind speed exceeds 8 kph.

AVOID APPLICATION WHEN TEMPERATURE INVERSIONS ARE PREVAILING OR DURING PERIODS OF EXCESS HEAT (for example daytime temperatures greater than 25°C) as a reduction in control will result. Best control will be achieved when **VIKING Rauma Insecticide** is applied during the cooler portions of the day (for example early morning or at dusk).

TANK MIXES

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.

When tank mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

Use tank mixtures with insecticides from a different group that is effective on the target pest when such use is permitted.

TANK MIX COMBINATIONS

VIKING Rauma Insecticide can be tank mixed with a number of herbicides for the control of insect pests (specified on this label) and annual grassy and broadleaf weeds (see list of susceptible weeds on the respective herbicide labels). Carefully read respective labels for proper use. The following herbicides are compatible:

PARDNER®	BANVEL®	2,4-D
BUCTRIL® M		MCPA

SPRAY BUFFER ZONES

Spot treatments using hand-held equipment DO NOT require a spray buffer zone.

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 Habitats of Depths:		Terrestrial habitat
			< 1 m	> 1 m	< 1 m	>1 m	
Field sprayer	Cabbage		2	1	30	15	1
	Pepper, field corn, seed corn, sweet corn		1	1	45	20	1
	Canola, mustard, rapeseed		1	1	30	15	0
	Oilseed mustard, tomato		1	1	25	10	0
	Potato		1	1	35	15	1
Aerial	Sweet corn (1 x 15 g a.i./ha)	Fixed wing	45	15	800	800	1
		Rotary wing	30	10	800	800	10
	Canola, mustard, rapeseed, oilseed mustard (1 x 10 g a.i./ha)	Fixed wing	20	10	800	800	1
		Rotary wing	15	10	800	800	1
	Potato (2 x 7.5 g a.i./ha)	Fixed wing	40	10	800	800	1
		Rotary wing	25	10	800	750	5
	Potato (high muck soils) (1 x 7.5 g a.i./ha)	Fixed wing	15	10	800	800	1
		Rotary wing	10	5	800	750	1

When tank mixes are permitted, consult the labels of the tank mix partners and observe the largest (most restrictive) spray 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.

CROPS	INSECTS	METHOD OF APPLICATION AND RECOMMENDATIONS	RATE
Cabbage	Flea Beetles	GROUND Apply when insects are present and actively feeding. Minimum interval between applications: 10 days; DO NOT APPLY MORE THAN 8 TIMES PER YEAR. Under severe pest pressure, application should also be made to a 15-metre strip along fence rows around the field.	150-200 mL/ha in 350-550 L of water per ha.
<p>DO NOT apply to adjacent unregistered crops.</p> <p>DO NOT apply within 3 days of harvest.</p> <p>Do not apply more than 8 times per year.</p> <p>May be used once per year on high organic (muck) soils. To minimize residues, apply before August 1. See instructions above.</p>			
Corn (field and seed)	European Corn Borer	GROUND Apply when egg masses begin to hatch, but no later than when the first pinhole feeding is seen on the leaves. Direct spray into the whorl of the plant. Repeat at 5-8 day intervals. For control of second generation, direct spray at ear zone.	250-300 mL/ha in at least 240 L of water per ha.
<p>DO NOT apply more than 3 times per year. See instructions above.</p> <p>Do not apply within 1 day of harvest.</p>			

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for uses described in this section of the label were developed by person 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.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Viking Crop Production Partners Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use(s) described below.

Corn (sweet)	European Corn Borer	GROUND Apply when egg masses begin to hatch, but no later than when the first pinhole feeding is seen on the leaves. Direct spray into the whorl of the plant. For control of second generation, direct spray at ear zone. In situations where pest monitoring indicates repeat applications are required, it is recommended that VIKING Rauma Insecticide be alternated with other insecticides.	250-300 mL/ha in at least 240 L of water per ha.
	Corn Earworm	Apply when insects are present in the silks. Follow provincial spray calendar recommendations	
	European Corn Borer, Corn Earworm	AERIAL Read instructions for Aerial Application.	250-300 mL/ha in 11-22 L of water per ha.

DO NOT apply more than 2 times per year, only one of which may be by air.

DO NOT apply within 5 days of harvest.

To minimize residues in high organic (muck) soils apply before August 1.

Peppers	European Corn Borer	GROUND Apply when egg masses begin to hatch or when first signs of insect feeding are evident. Repeat at 5-7 day intervals.	250-300 mL/ha in 200-500 L of water per ha.
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DO NOT apply more than 3 times per year.

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		GROUND	
Rapeseed (Canola), Mustard	Flea Beetles	Apply when insects are present. VIKING Rauma Insecticide controls only those insects present. Application should be made when the beetles are actively feeding. Under severe pest pressure, application should also be made to a 15-metre strip along fence rows around the field.	100-150 mL/ha in 100 L of water per ha.
	Flea Beetles	AERIAL Apply once per year by air, if required. Read instructions for Aerial Application.	100-150 mL/ha in 20-45 L of water per ha.
<p>DO NOT apply to adjacent unregistered crops.</p> <p>DO NOT apply within 7 days of harvest.</p> <p>Do not apply more than 500 mL product per season.</p> <p>Maximum 3 applications per season. If 3 applications are used, only the first or second application can be at 200 mL/ha.</p> <p>Allow a 7 day interval between treatments by ground application.</p>			
Potatoes	Colorado Potato Beetle	GROUND Apply when insects are present or signs of insect feeding are evident. Repeat as necessary to a maximum of 3 applications per year. Use the high rate under severe infestations.	100-150 mL/ha in 200-500 L of water per ha.
	Potato Flea Beetle	Apply when first signs of insects appear and damage is visible. VIKING Rauma Insecticide controls only those insects present. Under severe pest pressure, application should also be made to a 15-metre strip along fence rows around the field.	
	European Corn Borer	Scout for European corn borer egg masses to determine when egg laying and egg hatch is occurring. Apply VIKING Rauma Insecticide to coincide with peak egg hatch. A second application 5-7 days later may be required	150-250 mL/ha in 300-500 L of water per ha.

		during periods of extended egg-laying. Use the high rate to control heavy infestations.	
	Colorado Potato Beetle, Potato Flea Beetle	AERIAL Apply a maximum of 2 times per year by air, if required. Read instructions for Aerial Application.	100-150 mL/ha in 20-22 L of water per ha.

DO NOT apply to adjacent unregistered crops.
DO NOT apply within 1 day of harvest.
Do not apply more than 750 mL product/ha/season by ground, or 300 mL product/ha/season by air.

May be used once per year on high organic (muck) soils. To minimize residues, apply before August 1. See instructions above.

Tomatoes	Colorado Potato Beetle	GROUND Apply when insects are present or signs of insect feeding are evident. Repeat as necessary to a maximum of 3 applications per year. Use the high rate under severe infestations.	100-150 mL/ha in 200-500 L of water per ha.
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DO NOT apply within 3 days of harvest.
May be used once per year on high organic (muck) soils. To minimize residues, apply before August 1. See instructions above.
RESISTANCE: Colorado Potato Beetle is known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. The use of **VIKING Rauma Insecticide** must be alternated with insecticides with a different mode of action. Consult your agricultural advisor for resistance management strategies and recommended pest management practices for your area.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, **VIKING Rauma Insecticide** contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to **VIKING Rauma Insecticide** and other Group 3 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of **VIKING Rauma Insecticide** or other Group 3 insecticides with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that is effective on the target pest when such use is permitted.
- Insecticide use should be based on an integrated pest management (IPM) program that includes scouting and record keeping and considers cultural, biological, and other chemical control practices.
- Monitor treated pest populations for resistance development.

- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact Viking Crop Production Partners Inc. at 1-587-743-1029.

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