
VIKING™
2024 CROP PRODUCTION GUIDE
Ferocious™ Protection for Canada's Crops
vikingcropproduction.com

VIKING™

Ferocious™ Protection for Canada's Crops.

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We're new. We are Viking Crop Production Partners. And we want to be your preferred choice for crop protection products.

At Viking Crop Production Partners, our goal is simple – we exist to create competition and sustainable value for western Canadian agriculture. Like the Vikings of the past who were also farmers, fishermen, craftsmen and traders, Viking Crop Production Partners is serious and relentless about bringing a Ferocious™, proven, affordable high-performance portfolio of crop protection products that provide end to end crop protection for western Canadian agriculture.

This 2023 Viking Crop Production Partners product guide is just the start. It contains our current portfolio of Ferocious™, high-performance crop inputs, with even more Ferocious™products and innovations to come in the future. As in the Vikings of the past, you can count on us to deliver.

Doug Weinbender
President
Viking Crop Production Partners



VIKING™ 540 GLYPHOSATE

Herbicide

Ferocious™, affordable potassium salt 540-gram formulation glyphosate choice.

GROUP 9

REPLACES: Glyphosate 540

REGISTERED CROPS AND USES

- Pre-seed
- Summerfallow
- Pre-harvest and post-harvest applications
- Registered glyphosate tolerant crops
- Non-crop and industrial uses

WEEDS CONTROLLED

- Same weeds controlled as Roundup®
- See product label for a complete list of weeds controlled.

ACTIVE INGREDIENT

- Glyphosate 540 g/L soluble concentrate (SC) present as potassium salt

APPLICATION RATE AND ACRES TREATED

- See product label for application rates.

PACKAGE SIZE

- 500 L tote
- 1000 L tote

WATER VOLUME

Required water volume is crop and use specific. See product label for requirements

SURFACTANT

- Not required for most uses.
- Some uses required the addition of 350 mL/acre of a surfactant registered for use such as Agral® 90 or Ag-Surf®. See product label for details.

RAINFAST

- 1 hour



HOW VIKING 540 GLYPHOSATE WORKS:

A non-selective, systemic herbicide that moves from the foliage into the roots and kills the entire plant.

CROP STAGING

Crop	Stage
Glyphosate tolerant canola	Cotyledon to 6 leaf
Glyphosate tolerant soybeans	First trifoliate to flowering
Glyphosate tolerant corn	Up to 8 leaves
Pre-seed, summerfallow, pre-harvest post-harvest	See label for use

CROP ROTATIONS

- Grow all major crops the year after application

REGISTERED AND SUPPORTED TANK MIXES*

- Tank mixes are crop-and-use-specific. See product label for tank mix recommendations.

GRAZING RESTRICTIONS

- All portions of treated crops may be fed to livestock.

PREHARVEST AND GRAZING INTERVAL IN DAYS

- No preharvest interval is indicated.

STORAGE

- Store this product away from food or feed. Heated storage is not required. If product is frozen warm to room temperature and agitate before use. Avoid contamination of seed, feed, and foodstuffs.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required amount of dry, soluble concentrate, or liquid tank mix partner products.
3. Add the required amount of **VIKING 540 Glyphosate Herbicide**.
4. Add the required amount of surfactant if needed and apply.
5. Always refer to tank mix partner labels for specific tank mix requirements.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

For best performance apply during warm moist growing conditions when temperatures are between 12°C and 24° C. Wilting and yellowing of annual weeds will occur within 2-4 days, perennials will require 7-10 days or longer, and full control may take 3-4 weeks depending on growing conditions. Control may be slowed or reduced under cool, wet cloudy conditions or if plants are stressed by drought, frost, or other stress conditions. Dirty water, hard water, water with suspended soil or organic matter or water containing calcium (Ca+), magnesium (Mg+), or iron (Fe+) ions will reduce control.

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PULSE & SPECIAL CROP PRE-SEED HERBICIDE

VIKING™ CARFENTRAZONE

Herbicide



Ferocious™, fast and effective pre-seed control of kochia, cleavers, , flixweed, redroot pigweed, and volunteer canola (including glyphosate tolerant biotypes) plus tank mix flexibility, no re-cropping restrictions, and an alternative Group 14 mode of action for resistance management prior to seeding different crops.

GROUP 14

REPLACES: Aim®

REGISTERED CROPS AND USES

- Canola
- Chickpea
- Dry bean
- Lentils
- Field peas
- Soybeans
- Fababeans
- Barley
- Spring wheat
- Durum wheat
- Winter wheat
- Oats
- Potato
- Buckwheat
- Corn (including field, pop and sweet)
- Pearl millet
- Proso
- Millet
- Rye
- Triticale
- Mustard
- Flax
- Safflower
- Sunflower
- See product label for a complete list of additional registered crops.

WEEDS CONTROLLED

(At 29.2 ml/acre) See product label for the maximum size of each weed controlled:

- Carpetweed
- Cleavers[1]
- Cocklebur
- Common purslane
- Eastern black nightshade
- Flixweed[1]
- Jimsonweed
- Kochia
- Lamb's-quarters
- Morning glory
- Hairy nightshade
- Round-leaved mallow
- Pennsylvania smartweed (seedling)
- Pigweed (prostrate, redroot, smooth, tumble)
- Russian thistle[1]
- Shepherd's purse2
- Stinkweed
- Tansy mustard
- Tall waterhemp
- Velvetleaf
- Volunteer canola (including glyphosate tolerant types) up to 4 leaf stage

[1]Controlled with the addition of glyphosate at 180-275 g ae per acre
[2]Controlled with the addition of glyphosate at 325 g ae per acre

ACTIVE INGREDIENT

- Carfentrazone-ethyl 240 g/L emulsifiable concentrate (EC

APPLICATION RATE AND ACRES TREATED

- **Recommended Rate**: 30 mL/acre
- **Acres Treated**: 320 acres/case
- See label for additional application rates.

PACKAGE SIZE

- **Case**: 2 X 4.8 L jug

WATER VOLUME

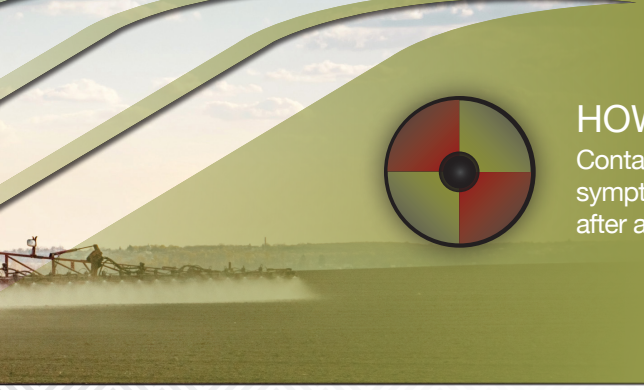
- Minimum 10 US gallons/acre (40 L/acre)

SURFACTANT

- Not required when used with glyphosate.

RAINFAST

- 1 hour



HOW VIKING CARFENTRAZONE WORKS:

Contact herbicide that is primarily absorbed by the leaves of plants. Typical symptoms are rapid browning and necrosis which occurs rapidly within hours after application with control taking several days to one week..

CROP STAGING

- Crop stage: prior to seeding
- Weed stage: up to 10 cm in height

CROP ROTATIONS

- All major crops can be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING 540 Glyphosate Herbicide**

GRAZING RESTRICTIONS

- No grazing restrictions.

PREHARVEST INTERVAL

- Mature crops can be harvested 3 days after application, except potatoes, which require 7 days after application

STORAGE

- Store this product away from food or feed. Store in a cool dry place away from heat.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. If required add the correct amount of any dry or solution concentrate products.
3. Add the required amount of **VIKING Carfentrazone Herbicide**.
4. Add the required amount of **VIKING 540 Glyphosate Herbicide**.
5. Add any other liquid formulation tank mix products.
6. Add surfactant if required, then complete filling tank and apply.
7. If application is paused prior to completion, agitate to re-suspend spray solution prior to commencing spraying.

PERFORMANCE TIPS

Best control will occur when applied between 12°C and 24°C in warm, moist, sunny conditions when weeds are small and actively growing. Good coverage of weeds is essential; due to rapid absorption by leaves, translocation is very limited. Weeds that are not emerged will not be controlled. Extreme weather conditions such as temperature, moisture, soil conditions and cultural practices may affect activity. Under drought conditions control may be reduced as weeds hardened off by drought are less susceptible. Do not apply **VIKING Carfentrazone Herbicide** more than once per growing season.

Always read and follow all label precautions and directions.

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CEREAL PRE-SEED HERBICIDE

VIKING™ DICAMBA

Herbicide



Ferocious™, proven pre-seed control of kochia, cow cockle, smartweed and wild buckwheat plus many more tough broadleaf weeds prior to seeding of spring wheat, durum wheat, barley, oats, and field corn, and in summerfallow.

GROUP 4

REPLACES: Banvel®

REGISTERED CROPS AND USES

- Pre-seed ahead of spring wheat, durum wheat, barley, oats, and field corn only.
- Chem-fallow, summerfallow, stubble.
- See label for additional product uses and application rates.

WEEDS CONTROLLED

IN PRE-SEED AT 127 mL/acre when mixed with glyphosate acid equivalent at 0.375 L/acre (360 gm a.i./L formulation)

- Cleavers1 (1-4 whorl)
- Cow Cockle
- Downy brome
- Flixweed[2]
- Foxtail barley[4]
- Green foxtail
- Kochia
- Lady's-thumb
- Lamb's-quarters
- Persian darnel
- Redroot pigweed
- Russian thistle
- Smartweed
- Stinkweed[2]
- Volunteer canola[3]
- Volunteer cereals
- Wild oats
- Wild buckwheat (1-4 leaf stage)
- Wild mustard

[1] Suppression only
[2] For optimal control 2,4-D should be applied in the fall prior.
[3] Requires addition of 2,4-D or MCPA Amine for RR volunteers.
[4] Apply before initiation of seed head or browning of lower leaves.

PERENNIAL WEEDS CONTROLLED

IN SUMMERFALLOW AT 0.5 L/ACRE

When mixed with glyphosate acid equivalent at 0.75 L/acre (360gm a.i./L formulation):acid equivalent at 0.375 L/acre (360 gm a.i./L formulation)

- Canada thistle
- Curled dock[1]
- English daisy
- Field bindweed
- Goldenrod
- Perennial sow thistle
- Tansy ragwort
- Plus weeds controlled by glyphosate

[1] Top growth only

ACTIVE INGREDIENT

- Dicamba 480 g/L solution

APPLICATION RATE AND ACRES TREATED

- **Low rate**: 127 mL/acre (pre-seed)
- **High rate**: 500 mL/acre (summerfallow)
- **Acres Treated**: 160 acres (pre-seed), 40 acres (summerfallow)
- See product label for additional information on application rates.

PACKAGE SIZE

- **Case**: 2 X 10.2 L jug

WATER VOLUME

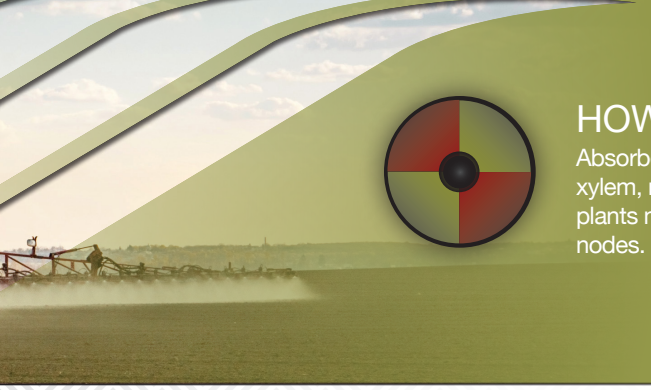
- US gallons/acre (40 L/acre)

SURFACTANT

- Not required when used alone.
- Agral® 90 or another non-ionic surfactant at 5 L per 1,000 L water when mixed with glyphosate.

RAINFAST

- Minimum 1 hour
- Avoid application when heavy rain is forecast



HOW VIKING DICAMBA WORKS:

Absorbed through roots and leaves and translocated in the plant through phloem and xylem, mimicking naturally occurring plant growth hormones and disrupting the affected plants metabolism. Symptoms of effect include epinasty (twisting of the stems) and swollen nodes.

CROP STAGING

- **Crop stage**: immediately prior to seeding
- **Weed stage** (Pre-seed):
  Grass weeds: emergence to heading
  Broadleaf weeds: up to 15 cm in height
- Weed stage (summerfallow or stubble): See label for weed specific application timing

CROP ROTATIONS

- **Pre-seed**: grow all major crops the year after application.
- **Summerfallow or stubble†:** canola, cereals, field corn, soybeans, white beans can be grown the year after application.
- **Re-cropping options are rate dependent** – see label for details.

†If application occurs after September 1, or if soil moisture conditions are low after application, crop injury may occur the following year.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING 540 Glyphosate Herbicide**, 2,4-D Amine or MPCA Amine

GRAZING RESTRICTIONS

- Lactating dairy animals may graze fields 7 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

PREHARVEST INTERVAL

- Harvest forage or cut hay 30 days after application

STORAGE

- If frozen warm gently and shake thoroughly before use.
- Store this product away from food or feed.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. Add the required rate of **VIKING Dicamba Herbicide**.
3. If required, add the correct rate of 2,4-D Amine or MCPA Amine.
4. Add the required rate of **VIKING 540 Glyphosate Herbicide.**
5. Add any required surfactant, complete filling with water and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when applied between 10°C and 25°C in warm moist growing conditions when weeds are small and actively growing. Typical symptoms (curled leaves, twisted stems, swollen nodes, cupped leaves) of dying weeds may not be noticeable for 10-14 days after application depending upon growing conditions. Control of weeds may take 3-4 weeks. For Canada thistle and perennial sow thistle rosette control in summerfallow and stubble, perform final tillage the last week in July or first weed in August, let thistles re-grow for a minimum of 4 weeks, and apply before thistles reach early bud stage (15-25 cm tall) and at least 2 weeks prior to a killing frost. Avoid application when crop is under stress from adverse environmental conditions. Do not spray if risk of frost or severe drop in nighttime temperatures is forecast. Under certain stress conditions, such as drought, cool temperatures or where extremely hard water (> 700 ppm Ca + Mg) will be used, use 5 US gallons/acre of water to help improve results. For field corn, do not use on sandy or sandy loam soil with less than 2.5% organic matter. Dicamba may drift into susceptible crops and result in injury - do not apply in conditions favoring thermal inversions, or when winds are blowing towards susceptible plants.

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CEREAL PRE-SEED HERBICIDE

VIKING™ ESLOV

Herbicide



Ferocious™, systemic, multi-mode of action product with a higher rate of dicamba for effective pre-seed control of kochia, enhanced control of dandelion and narrow-leaved hawk's-beard, plus control of flixweed, stinkweed, and 17 other tough-to-kill broadleaf weeds proor to seeding of spring wheat, durum wheat and barley.

GROUP 2 & 4

REPLACES: Express® FX

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Barley

WEEDS CONTROLLED

When mixed with glyphosate acid equivalent at 0.5 L/acre (360 gm a.i.):

Weeds up to 8 cm

- Canada fleabane
- Common ragweed
- Narrow- leaved hawk's-beard

Rosette

- Canada thistle

Weeds up to 15 cm

- Cleavers (1-4 whorls) suppression only
- Cow cockle
- Dandelion
- Downy brome
- Flixweed
- Giant foxtail
- Green foxtail
- Hemp-nettle
- Kochia
- Lady's thumb
- Lamb's-quarters
- Persian darnel
- Redroot pigweed
- Russian thistle
- Smartweed
- Stinkweed
- Volunteer barley
- Volunteer canola
- Volunteer flax
- Volunteer wheat
- Wild buckwheat
- Wild mustard
- Wild oats

ACTIVE INGREDIENTS

- Dicamba 480 g/L solution (S)
- Tribenuron-methyl 75% dry flowable (DF)

APPLICATION RATE AND ACRES TREATED

- 127 mL/acre **VIKING Dicamba Herbicide** + 4 grams/acre **VIKING Tribenuron Herbicide**
- **Acres Treated:** 160 acres/case.

PACKAGE SIZE

- **Case:** 2 X 10.2 litre jugs **VIKING Dicamba Herbicide** + 2 X 320 gram bottles **VIKING Tribenuron Herbicide**

WATER VOLUME

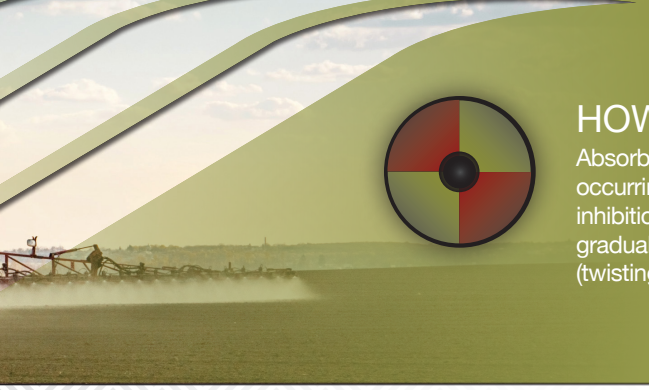
- Minimum 10 US gallons/acre (40 L/acre)

SURFACTANT

- None required when mixed with glyphosate.

RAINFAST

- 1 hour



HOW VIKING ESLOV WORKS:

Absorbed primarily through leaves and translocated in the plant, mimicking naturally occurring plant growth hormones and disrupting the affected plants metabolism, or through inhibition of the ALS enzyme depending on the weed species. Symptoms of effect will gradually spread through the plant and include reddening or purpling and/or epinasty (twisting of the stems) and swollen nodes.

CROP STAGING

- **Crop staging**: Apply up to 1 day prior to seeding.
- **Weed staging**: See "Weeds Controlled" section.

CROP ROTATIONS:

- All major crops may be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*:

- **VIKING 540 Glyphosate Herbicide**

GRAZING RESTRICTIONS:

- Lactating dairy animals may graze fields 7 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

PREHARVEST INTERVAL:

- Harvest forage or cut hay 30 days after application.

STORAGE:

- Store product in original container in a secure, dry area, away from fertilizer, seed, food or feed. If liquid component is frozen, warm gently and shake before use.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. Add the required amount of **VIKING Tribenuron Herbicide** and agitate until product is fully dissolved.
3. Add the required amount of **VIKING Dicamba Herbicide**.
4. Add the required amount of **VIKING 540 Glyphosate Herbicide**.
5. Add required amount of surfactant, then fill the tank with the balance of required water and apply.
6. Product must be applied within 24 hours in order to remain effective.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

This product must be mixed with glyphosate. Use 50 mesh or larger screens in spraying equipment. Best control will occur when applied between 10°C and 25°C in warm moist growing conditions when weeds are small and actively growing. Degree and duration of control will depend on weed sensitivity, weed size, spray coverage and growing conditions. Always ensure thorough spray coverage of target weeds. Typical symptoms (discoloration, curled leaves, twisted stems, swollen nodes, or cupped leaves) of dying weeds may not be noticeable for 10-14 days after application depending upon growing conditions. Control of weeds may take 3-4 weeks. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur. Application to crops that are stressed by severe weather conditions, cold weather, frost, low fertility, drought, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls, calcium deposits, or soils with less than 3% organic matter, as risk of crop damage will increase.

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CEREAL PRE-SEED HERBICIDE

VIKING™ FLORASULAM

Herbicide



Ferocious™, hard-hitting, pre-seed and post-harvest control of dandelion (top growth), narrow-leaved hawk's-beard, volunteer canola (all types), wild buckwheat and other hard-to kill weeds plus tank mix flexibility and no re-cropping restrictions for spring application, prior to seeding of wheat, barley and oats.

GROUP 2

REPLACES: PrePass™ Flex

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Winter wheat
- Barley
- Oats

WEEDS CONTROLLED

When mixed with glyphosate.

- Annual blue grass[1]
- Annual sow thistle[1]
- Canada fleabane
- Canada thistle[1]
- Chickweed
- Cleavers
- Cow cockle
- Crabgrass[1]
- Dandelion[1,2]
- Downy brome
- Flixweed
- Foxtail barley[1]
- Giant foxtail
- Green foxtail
- Hemp-nettle
- Kochia
- Lady's thumb
- Lamb's-quarters
- Narrow-leaved hawk's-beard
- Narrow-leaved vetch
- Persian darnel
- Prickly lettuce[1]
- Quackgrass[1]
- Ragweed
- Redroot pigweed
- Russian thistle
- Scentless chamomile
- Shepherd's purse
- Smartweed
- Stinkweed
- Toadflax[1]
- Volunteer barley
- Volunteer Canola (all HT types)
- Volunteer flax
- Volunteer wheat
- Wild buckwheat
- Wild mustard
- Wild oats

WEEDS SUPRESSED

- Annual sow thistle
- Perennial sow thistle

[1] With additional glyphosate; refer to label for rates.
[2] Top growth control, up to 15 cm.

ACTIVE INGREDIENT

- Florasulam 50 g/L suspension concentrate (SC)

APPLICATION RATE AND ACRES TREATED

- **Rate**: 40 mL/acre
- Acres Treated: 320 acres/case.

PACKAGE SIZE

- **Case**: 2 X 6.4 L jug

WATER VOLUME

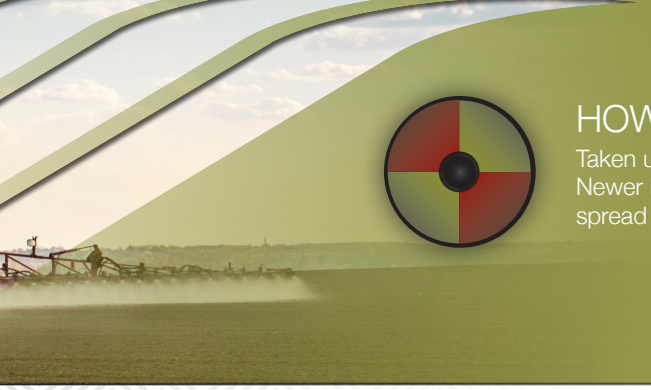
- Minimum 10 US gallons/acre (40 L/acre)

SURFACTANT

- Not required when used with glyphosate
- When used alone, requires Agral® 90 or another non-ionic surfactant at 2 L per 1,000 L water.

RAINFAST

- 2 hours



HOW VIKING FLORASULAM WORKS:

Taken up by leaves and stops growth of weeds rapidly via inhibition of the ALS enzyme. Newer leaves start to yellow and wilt, followed by a loss of green color. Symptoms will spread to the rest of the plant with some weeds showing reddening or purpling.

CROP STAGING

- **Spring**: Prior to seeding, or no later than 48 hours after seeding (before emergence)
- **Fall**: After harvest to freeze up

CROP ROTATIONS

- **1 day after application**: Wheat (spring, durum, winter), barley, or oats
- **When applied as a chem fallow treatment prior to August 1**: Wheat (spring, durum, winter), barley, canola, peas, and oats may be seeded the following spring.
- **When applied to fields after August 1**: Winter wheat may be seeded at least 1 day after application, or wheat, barley, or oats the following spring.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING 360 Glyphosate Herbicide†**

† Using K+ salt glyphosates found in 540 glyphosates may result in a paint-like solution in the spray tank

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

GRAZING RESTRICTIONS

- Livestock may be grazed on treated crops 7 days following application.

PREHARVEST INTERVAL

- Allow 30 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application

STORAGE

- Store this product away from food or feed. Store in original containers in a secure, dry heated storage. Product will freeze at -10°C . If product is frozen, bring to room temperature and agitate before use.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. Add the required amount of **VIKING Florasulam Herbicide** and mix thoroughly.
3. Add the required amount of **VIKING 360 Glyphosate Herbicide or other 360 g/L glyphosates.**
4. Add the required amount of surfactant if needed and apply.
5. If application is paused prior to completion, agitate to re-suspend spray solution prior to commencing spraying.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur in warm moist growing conditions. Typical symptoms (discoloration) of dying weeds may not be noticeable for 1 to 2 weeks after application. Adverse growing conditions such as drought or near freezing temperatures prior to, at or following time of application may reduce weed control or increase weed re-growth. If foliage is wet at the time of application, control may be decreased. Under conditions of high weed density, control may be reduced. Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as poor control can result. Crop injury may occur when growing conditions are poor (marginal soil fertility, saline soils, waterlogged soils, drought, seedling disease) or on variable soils (eroded knolls, sidehills). Do not apply herbicides containing florasulam in-crop the same year that **VIKING Florasulam Herbicide** is applied pre-seed.

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CEREAL PRE-SEED HERBICIDE

VIKING™ KIRUNA

Herbicide



Ferocious™, hard-hitting, multi-mode of action product with a higher rate of dicamba for outstanding pre-seed control of dandelion (top growth), kochia, narrow-leaved hawk's-beard, volunteer canola (all types), wild buckwheat and other hard-to kill weeds prior to seeding wheat, barley, or oats.

GROUP 2 & 4

REPLACES: Korrex™

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Winter wheat
- Barley
- Oats

WEEDS CONTROLLED

When mixed with glyphosate.

- Annual blue grass[1]
- Annual sow thistle[1]
- Canada fleabane
- Canada thistle[1]
- Chickweed
- Cleavers
- Cow cockle
- Crabgrass[1]
- Dandelion[1,2]
- Downy brome
- Flixweed
- Foxtail barley[1]
- Giant foxtail
- Green foxtail
- Hemp-nettle
- Kochia
- Lady's thumb
- Lamb's-quarters
- Narrow-leaved hawk's-beard
- Narrow-leaved vetch
- Persian darnel
- Prickly lettuce[1]
- Quackgrass[1]
- Ragweed
- Redroot pigweed
- Russian thistle
- Scentless chamomile
- Shepherd's purse
- Smartweed
- Stinkweed
- Toadflax[1]
- Volunteer barley
- Volunteer canola (all HT types)
- Volunteer flax
- Volunteer wheat
- Wild buckwheat
- Wild mustard
- Wild oats

WEEDS SUPRESSED

- Annual sow thistle
- Perennial sow thistle

[1] With additional glyphosate; refer to label for rates.
[2] Top growth control, up to 15 cm

ACTIVE INGREDIENTS

- Dicamba 480 g/L solution (S)
- Florasulam 50 g/L suspension concentrate (SC)

APPLICATION RATE AND ACRES TREATED:

- **Rate**: 127 mL/acre of **VIKING Dicamba Herbicide** + 40 mL/acre of **VIKING Florasulam Herbicide**
- **Acres Treated**: 160 acres/case.

PACKAGE SIZE:

- **Case**: 2 X 10.2 litre jugs **VIKING Dicamba Herbicide** + 1 X 6.4 L jug **VIKING Florasulam Herbicide**

WATER VOLUME:

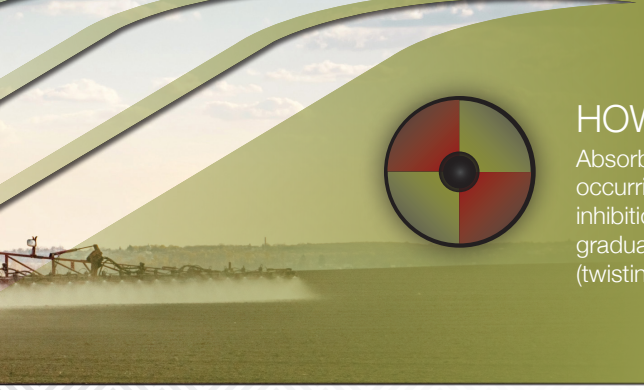
- Minimum 10 US gallons/acre (40 L/acre)

SURFACTANT:

- None required when mixed with glyphosate.

RAINFAST:

- 2 hours



HOW VIKING KIRUNA WORKS:

Absorbed primarily through leaves and translocated in the plant, mimicking naturally occurring plant growth hormones and disrupting the affected plants metabolism, or through inhibition of the ALS enzyme depending on the weed species. Symptoms of effect will gradually spread through the plant and include reddening or purpling and/or epinasty (twisting of the stems) and swollen nodes.

CROP STAGING

- **Crop stage**: Prior to seeding, or no later than 48 hours after seeding (before emergence)
- **Weed stage**: 2- 4 leaf stage

CROP ROTATIONS:

- 1 day after application: Wheat (spring, durum, winter), barley, or oats
- All major crops may be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*:

- **VIKING 360 Glyphosate Herbicide** or other 360 g/L glyphosate products†.

†Using K+ salt glyphosates found in 540 glyphosates may result in a paint-like solution in the spray tank.

GRAZING RESTRICTIONS:

- Livestock may be grazed on treated crops 7 days following application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.

PREHARVEST INTERVAL:

- Allow 30 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application.

STORAGE:

- Store this product away from food or feed. Store in original containers in a secure, dry heated storage. Product will freeze at -10°C . If product is frozen, bring to room temperature and agitate before use.

* When applying tank mix combinations, always follow all label requirements for each product including, Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. Add the required amount of **VIKING Florasulam Herbicide** and mix thoroughly.
3. Add the required amount of **VIKING Dicamba Herbicide** and continue agitation.
4. Add the required amount of 360 g/L glyphosate herbicide.
5. Add the required amount of surfactant and apply.
6. If application is paused prior to completion, agitate to re-suspend spray solution prior to commencing spraying.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

This product must be mixed with glyphosate. Best control will occur when applied between 10°C and 25°C in warm moist growing conditions when weeds are small and actively growing. Weeds must be emerged at the time of application in order to be affected. Typical symptoms (discoloration, curled or cupped leaves) of dying weeds may not be noticeable for 1 to 2 weeks after application, depending upon growing conditions and weed susceptibility. Control of weeds may take 3-4 weeks. Extreme growing or stress conditions such as low fertility, drought, near freezing temperatures prior to, at or following time of application may reduce weed control or increase weed re-growth. If foliage is wet at the time of application, control may be decreased. Under conditions of high weed density, control may be reduced. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result. Injury on crops planted after application may occur when growing conditions are poor (marginal soil fertility, saline soils, waterlogged soils, drought, seedling disease) or on variable soils (eroded knolls, sidehills). Do not use dicamba or florasulam in successive years or apply consecutively on the same field.

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CEREAL PRE-SEED HERBICIDE

VIKING™ SOLNA

Herbicide



Ferocious™, effective, proven, multi-mode of action control of kochia, cleavers, wild mustard, redroot pigweed, stinkweed, and volunteer canola plus 42 other tough to kill weeds when mixed with glyphosate, with no re-cropping restrictions, prior to seeding wheat.

GROUP 4 & 14

UNIQUE TO VIKING

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Winter wheat

WEEDS CONTROLLED

When mixed with glyphosate acid equivalent at 0.5-0.77 L/acre (360 gm a.e./L

- Annual blue grass[1]
- Annual sow thistle[1]
- Bluebur
- Burdock
- Canada fleabane
- Canada thistle[1]
- Cleavers
- Cocklebur
- Common ragweed
- Crabgrass[1]
- Dandelion[1,2]
- Daisy fleabane
- Downy brome
- Eastern black nightshade
- False ragweed
- Flixweed
- Foxtail barley[1]
- Giant foxtail
- Goat's beard
- Green foxtail
- Hemp-nettle
- Kochia
- Lady's thumb
- Lamb's-quarters
- Morning glory
- Mustards (except dog and tansy)
- Narrow-leaved hawk's-beard
- Narrow-leaved vetch[1]
- Persian darnel
- Plantain
- Prickly lettuce[1]
- Quackgrass[1]
- Redroot pigweed
- Russian pigweed
- Russian thistle
- Shepherd's purse
- Stinkweed
- Thyme-leaved spurge
- Volunteer barley
- Volunteer canola (including glyphosate tolerant types)
- Volunteer flax
- Volunteer wheat
- Wild buckwheat
- Wild mustard
- Wild oats
- Wild radish
- Wild sunflower

[1] With the addition of extra glyphosate; refer to label to rates
[2] Seedling and over-wintered rosettes only
[3] Use the higher glyphosate rate if weeds are 8-15cm in height
[4] Spring seedlings

ACTIVE INGREDIENTS

- Carfentrazone-ethyl 240 g/L emulsifiable concentrate (EC)
- 2,4-D ester 660 g/L emulsifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED:

- **Rate**: 30 mL/acre of **VIKING Carfentrazone Herbicide** + 245 mL/acre of **VIKING 2,4-D Ester 700 Herbicide**.
- **Acres Treated**: 80 acres/case.

PACKAGE SIZE:

- 2.4 L jug **VIKING Carfentrazone Herbicide** + 2 x 9.8 L jugs **VIKING 2,4-D Ester 700 Herbicide**.

WATER VOLUME:

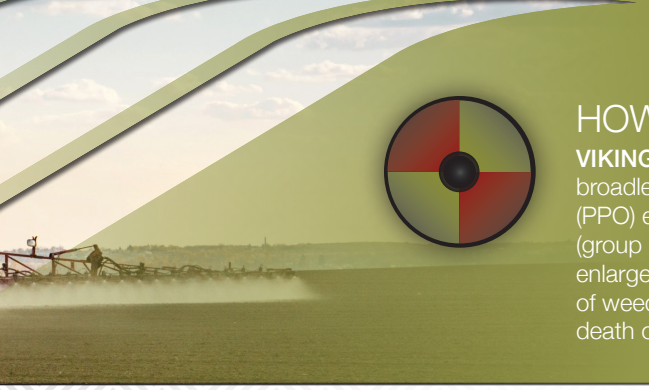
- Minimum 10 US gallons/acre (40 L/acre)

SURFACTANT:

- Not required when used with glyphosate.

RAINFAST:

- 2 hours



HOW VIKING SOLNA WORKS:

VIKING Solna Herbicide is a combination of a contact and systemic herbicide for broadleaf weed control. Carfentrazone (group 14) inhibits the protoporphyrinogen oxidase (PPO) enzyme, which results in cell membrane destruction and necrosis, while 2,4-D ester (group 4) mimics the plant growth regulator indol-3-acetic acid (auxin), interfering with cell enlargement and division in susceptible plants. Symptoms appear very rapidly with leaves of weeds taking on a water-soaked appearance, followed by wilting and necrosis. Complete death occurs within a few days depending on growing conditions.

CROP STAGING

- **Crop stage**: prior to seeding
- **Weed stage**: when weeds are small and actively growing.

CROP ROTATIONS:

- All major crops can be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*:

- **VIKING 540 Glyphosate Herbicide**.

GRAZING RESTRICTIONS:

- Graze lactating dairy animals 7 days after application.
- Meat animals must be withdrawn from treated fields 3 days before slaughter.

PREHARVEST INTERVAL:

- Mature crops can be harvested 30 days after application.

STORAGE:

- Store this product away from food or feed. Store in original containers only. Store in a cool, dry place and avoid excess heat.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. Add the required amount of **VIKING Carfentrazone Herbicide**.
3. Add the required amount of **VIKING 2,4-D Ester 700 Herbicide**.
4. Add the required amount of **VIKING 540 Glyphosate Herbicide**.
5. Add surfactant if required, then complete filling tank and apply.
6. If application is paused prior to completion, agitate to re-suspend spray solution prior to commencing spraying.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

This product must be mixed with glyphosate. Best control will occur when applied between 12°C and 24°C in good growing conditions when weeds are small and actively growing. Under warm moist conditions herbicide symptoms may be accelerated. Good coverage of weeds is essential; product is primarily absorbed by the leaves of plants, due to rapid absorption by leaves, translocation is very limited. Weeds that are not emerged will not be controlled. Typical symptoms (rapid browning, necrosis) occurs rapidly within hours after application with control several days or longer depending on conditions. Extreme weather conditions such as temperature, drought, excess moisture, soil conditions and cultural practices may reduce herbicide activity. Do not apply **VIKING Solna Herbicide** more than once per growing season.

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CEREAL PRE-SEED HERBICIDE

VIKING™ TRIBENURON

Herbicide



Ferocious™, systemic, pre-seed control of dandelion, narrow-leaved hawk's-beard, flixweed, and stinkweed, hemp-nettle and other tough-to-kill broadleaf weeds plus tank mix flexibility and no re-cropping restrictions prior to seeding of spring wheat, durum wheat and barley.

GROUP 2

REPLACES: Express®

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Barley

WEEDS CONTROLLED

When mixed with glyphosate acid equivalent at 0.5 L/acre (360 gm a.i.)

Weeds up to 8 cm

- Canada fleabane
- Common ragweed
- Narrow- leaved hawk's-beard

Weeds up to 3 leaf

- Cow cockle
- Wild buckwheat

Rosette

- Canada thistle[1]

Weeds up to 15 cm

- Dandelion
- Downy brome
- Flixweed
- Giant foxtail
- Green foxtail
- Hemp-nettle
- Kochia
- Lady's thumb
- Lamb's-quarters
- Persian darnel
- Redroot pigweed
- Russian thistle
- Stinkweed
- Volunteer barley
- Volunteer canola
- Volunteer flax
- Volunteer wheat
- Wild mustard
- Wild oats

[1] Suppression

ACTIVE INGREDIENT

- Tribenuron-Methyl 75% dry flowable (DF)

APPLICATION RATE AND ACRES TREATED

- Rate: 4 grams/acre
- Acres Treated: 80 acres/case

PACKAGE SIZE

- 320 gram bottle

WATER VOLUME

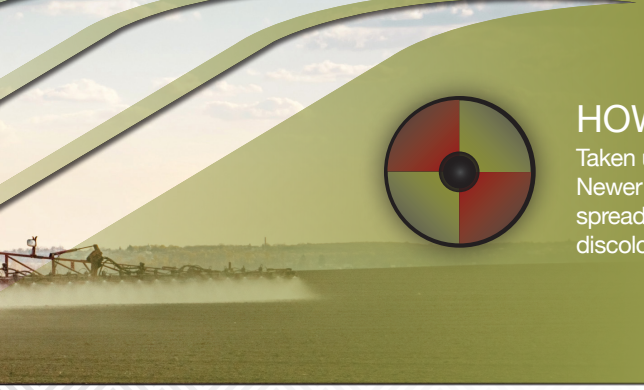
- 5-10 US gallons/acre (20 – 40 L/acre)

SURFACTANT

- None required when mixed with glyphosate.
- If used alone Agral® 90 at 2 L per 1,000 L water.

RAINFAST

- 1 hour



HOW VIKING TRIBENURON WORKS:

Taken up by leaves and stops growth of weeds rapidly via inhibition of the ALS enzyme. Newer leaves start to yellow and wilt, followed by a loss of green color. Symptoms will spread to the rest of the plant with some weeds showing purpling, reddening, or orange discoloration.

CROP STAGING

- Apply up to 1 day prior to seeding.

CROP ROTATIONS

- **1 day after application**: Spring wheat, durum wheat, or barley
- **2 months after application**: Canola, flax, lentils, or alfalfa.
- No restrictions the following crop year

REGISTERED AND SUPPORTED TANK MIXES*

VIKING 540 Glyphosate Herbicide

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

GRAZING RESTRICTIONS

- No grazing restrictions.

PREHARVEST INTERVAL

- No preharvest interval for registered crops.

STORAGE

- Store product in original container in a secure, dry area, away from fertilizer, seed, food or feed. Product can be frozen.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. Add the required amount of **VIKING Tribenuron Herbicide** and agitate until product is fully dissolved.
3. Add the required amount of **VIKING 540 Glyphosate Herbicide**.
4. Add required amount of surfactant, then fill the tank with the balance of required water and apply.
5. Product must be applied within 24 hours in order to remain effective.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Use 50 mesh or larger screens in spraying equipment. Optimum weed control will occur during warm moist conditions when weeds are actively growing. For best results, ensure thorough spray coverage of target weeds, use higher water volumes for heavier weed pressure. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur. Application to crops that are stressed by severe weather conditions, cold weather, frost, low fertility, drought, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls, calcium deposits, or soils with less than 3% organic matter, as risk of crop damage will increase.

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CANOLA PRE-SEED HERBICIDE

VIKING™ VARDO

Herbicide



Ferocious™, proven, multi-mode, pre-seed control of volunteer canola, lamb's quarters, and redroot pigweed plus control or suppression 29 additional annual grass and broadleaf weeds with no re-cropping restrictions when mixed with glyphosate prior to seeding canola.

GROUP 6 & 14

UNIQUE TO VIKING

REGISTERED CROPS AND USES

- All varieties of canola

WEEDS CONTROLLED

(with the addition of glyphosate at 325 g a.i. per acre)

Grass Weeds: Up To 8 Cm In Height Unless Otherwise Noted

- Annual blue grass
- Crab grass
- Downy brome (up to15 cm high)
- Green foxtail
- Giant foxtail (up to15 cm high)
- Persian darnel (up to15 cm high)
- Volunteer barley
- Volunteer wheat
- Wild oats

Grass Weeds: Up To 8 Cm In Height Unless Otherwise Noted

- Annual sow thistle
- Canada fleabane
- Cleavers
- Common ragweed
- Eastern nightshade
- Flixweed
- Hemp-nettle (up to 15 cm high)
- Kochia
- Lady's thumb
- Lamb's-quarters
- Morning glory
- Narrow-leaved hawk's beard
- Prickly lettuce
- Redroot pigweed (up to 15 cm high)
- Russian thistle (up to 15 cm high)
- Shepherd's purse thistle (up to 15 cm high)
- Stinkweed
- Tall waterhemp
- Volunteer
- Velvetleaf
- Volunteer Canola (all HT types)
- Volunteer flax (up to 15 cm high)
- Wild buckwheat (1-4 leaf)
- Wild mustard

ACTIVE INGREDIENTS

- Bromoxynil 280 g/L emulsifiable concentrate (EC)
- Carfentrazone-ethyl 240 g/L emulsifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED:

- **Rate**: 30 mL/acre **VIKING Carfentrazone Herbicide** + 202 mL/acre **VIKING Bromoxynil Herbicide**
- **Acres Treated**: 80 acres/case.

PACKAGE SIZE:

- **Case**: 2.4 L jug **VIKING Carfentrazone Herbicide** + 2 x 8.1 L jug **VIKING Bromoxynil Herbicide**

WATER VOLUME:

- Minimum 10 US gallons/acre (40 L/acre)

SURFACTANT:

- Not required when used with glyphosate.

RAINFAST:

- 1 hour



HOW VIKING VARDO WORKS:

Contact herbicide that contains 2 different modes of action that are primarily absorbed by the leaves of plants. Typical symptoms are rapid browning and necrosis which occurs rapidly within hours after application with control taking several days to one week.

CROP STAGING

- **Crop stage**: immediately prior to seeding
- **Weed stage**: see product labels for weed specific staging information.

CROP ROTATIONS:

- All major crops can be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*:

- **VIKING 540 Glyphosate Herbicide**.

GRAZING RESTRICTIONS:

- Do not graze the treated crop or cut for feed.

PREHARVEST INTERVAL:

- No preharvest interval indicated.

STORAGE:

- Store this product away from food or feed. Store in original containers only. Store in a cool, dry place and avoid excess heat.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. Add the required amount of **VIKING Carfentrazone Herbicide**.
3. Add the required amount of **VIKING Bromoxynil Herbicide**.
4. Add the required amount of **VIKING 540 Glyphosate Herbicide**.
5. Add any other liquid formulation tank mix products.
6. Add surfactant if required, then complete filling tank and apply.
7. If application is paused prior to completion, agitate to re-suspend spray solution prior to commencing spraying.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

This product must be mixed with glyphosate. Best control will occur when applied between 12°C and 24°C in warm, moist, sunny conditions when weeds are small and actively growing. As with other contact herbicides, the best results will be achieved if applied in the heat of the day with adequate water volume and appropriate sprayer settings and speed for good coverage. Good coverage of weeds is essential; **VIKING Vardo Herbicide** is a contact herbicide only, due to rapid absorption by leaves, translocation is very limited. Weeds that are not emerged will not be controlled. Typical symptoms of control (browning) appear rapidly after application, with susceptible plants becoming malformed and complete control occurring within a few days. Weed control may be reduced if weeds are stressed by conditions such as drought, waterlogged soils, or excessively cold or hot temperatures.

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CEREAL PRE-SEED HERBICIDE

VIKING™ VISBY

Herbicide



Ferocious™, systemic, pre-seed control or suppression of wild oats (suppression), dandelion, narrow-leaved hawk's-beard, flixweed, stinkweed, hemp-nettle and other tough-to-kill broadleaf weeds prior to seeding of spring wheat.

GROUP 2

REPLACES: Inferno® Duo

REGISTERED CROPS AND USES

- Spring Wheat

WEEDS CONTROLLED

(when mixed with glyphosate acid equivalent at 0.5 L/acre (360 gm a.i.):

Weeds up to 8 cm

- Canada fleabane
- Common ragweed
- Narrow- leaved hawk's-beard

Weeds up to 3 leaf

- Cow cockle
- Wild buckwheat

Rossette

- Canada thistle[2]

Weeds up to 15 cm

- Dandelion
- Downy brome
- Flixweed
- Giant foxtail
- Green foxtail
- Hemp-nettle
- Kochia
- Lady's thumb
- Lamb's-quarters
- Persian darnel
- Redroot pigweed
- Russian thistle
- Stinkweed
- Volunteer barley
- Volunteer canola
- Volunteer flax
- Volunteer wheat
- Wild mustard
- Wild oats

[1] Not including Clearfield® canola varieties
[2] Suppression

ACTIVE INGREDIENTS

- Tribenuron-Methyl 75% dry flowable (DF)
- Flucarbazone 66% water dispersible granule (WDG)

APPLICATION RATE AND ACRES TREATED

- **Rate**: 4 grams/acre **VIKING Tribenuron Herbicide** + 8.7 grams/acre **VIKING Flucarbazone Herbicide**.
- **Acres Treated**: 80 acres/case.

PACKAGE SIZE

- 320 gram bottle **VIKING Tribenuron Herbicide** + 695 gram bottle **VIKING Flucarbazone Herbicide**

WATER VOLUME

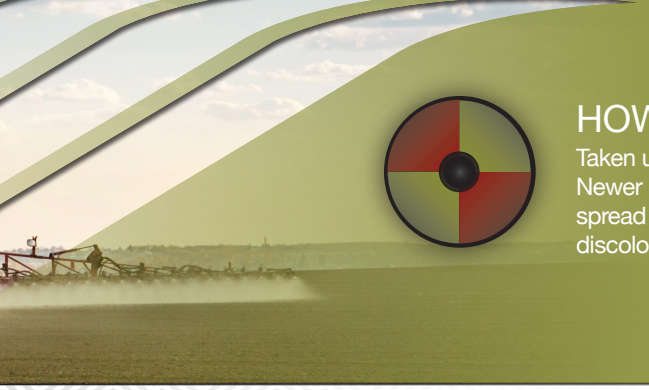
- 5-10 US gallons/acre (20 – 40 L/acre)

SURFACTANT

- None required when mixed with glyphosate.
- If used alone Agral® 90 at 2 L per 1,000 L water.

RAINFAST

- 1 hour



HOW VIKING VISBY WORKS:

Taken up by leaves and stops growth of weeds rapidly via inhibition of the ALS enzyme. Newer leaves start to yellow and wilt, followed by a loss of green color. Symptoms will spread to the rest of the plant with some weeds showing purpling, reddening, or orange discoloration.

CROP STAGING

- **Crop stage**: Apply up to 1 day prior to seeding.
- **Weed stage**: See "Weeds Controlled" section for weed staging.

CROP ROTATIONS

Re-Cropping Options By Soil Zone

Grey Wooded	Black	Dark Brown	Brown
Spring wheat	Spring wheat	Spring wheat	Spring wheat
Barley	Barley	Barley	
Canola	Canola	Canola	
Field peas*	Field peas*	Field peas*	
	Field beans	Flax	
	Flax	Durum wheat	
	Durum wheat		

* Field peas can be successfully grown the year after application of **VIKING Visby Herbicide** provided the following three criteria are met:

- Soil pH must be below 7.5.
- Organic matter content must be above 4%.
- Precipitation must be equal to or above the 10-year average (minimum 100 mm) within 60 days of application in the year of application.
- Or fields can be summerfallowed.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING 540 Glyphosate Herbicide**

GRAZING RESTRICTIONS

- Do not graze treated fields or use green crop for feed. Wheat grain or straw from harvested treated fields may be fed to livestock.

PREHARVEST INTERVAL

- Harvest mature crop 80 days after application.

STORAGE

- Store product in original container in a secure, dry area, away from fertilizer, seed, food or feed. Product can be frozen.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. Add the required amount of **VIKING Tribenuron Herbicide** and agitate until product is fully dissolved.
3. Add the required amount of **VIKING Flucarbazone Herbicide** and agitate until product is fully dissolved.
4. Add the required amount of **VIKING 540 Glyphosate Herbicide**.
5. Add required amount of surfactant, then fill the tank with the balance of required water and apply.
6. Product must be applied within 24 hours in order to remain effective.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Use 50 mesh or larger screens in spraying equipment. Optimum weed control will occur during warm moist conditions when weeds are actively growing. For best results, ensure thorough spray coverage of target weeds, use higher water volumes for heavier weed pressure. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur. Application to crops that are stressed by severe weather conditions, cold weather, frost, low fertility, drought, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls, calcium deposits, or soils with less than 3% organic matter, as risk of crop damage will increase.

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CEREAL PRE-SEED HERBICIDE

VIKING™ YSTAD

Herbicide



Ferocious™, contact and systemic product with two modes of action including higher rates of Carfentrazone and dicamba for fast, effective pre-seed control of kochia, plus enhanced control of dandelion, narrow-leaved hawk's-beard, flixweed, stinkweed, and 32 other tough-to-kill broadleaf weeds prior to seeding spring wheat, durum wheat or barley.

GROUP 2, 4 & 14

UNIQUE TO VIKING

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Winter wheat
- Barley
- Field corn

WEEDS CONTROLLED

(when mixed with glyphosate acid equivalent at 183-364 g a.e./acre):

- Canada thistle*
- Carpetweed
- Cleavers (1 to 4 whorls)
- Common groundsel
- Common purslane
- Common waterhemp
- Cocklebur
- Cow cockle
- Curled dock*
- Down brome
- Eastern black nightshade
- English daisy
- Field bindweed
- Flixweed
- Green foxtail
- Jimsonweed
- Kochia
- Lady's - thumb
- Tall waterhemp
- Tansy ragwort
- Velvetleaf
- Volunteer canola (including glyphosate tolerant biotypes)
- Volunteer cereals
- Wild buckwheat
- Wild mustard

* Top growth control only

ACTIVE INGREDIENTS

- Carfentrazone 240 g/L emulsifiable concéntrate (EC)
- Dicamba 480 g/L solution (S)

APPLICATION RATE AND ACRES TREATED:

- 30 mL/acre of **VIKING Carfentrazone** Herbicide + 127 mL/acre **VIKING Dicamba Herbicide**
- **Acres Treated**: 160 acres/case.

PACKAGE SIZE:

- Case: 1 X 4.8 litre jug **VIKING Carfentrazone Herbicide** + 2 X 10.2 litre jugs **VIKING Dicamba Herbicide**

WATER VOLUME:

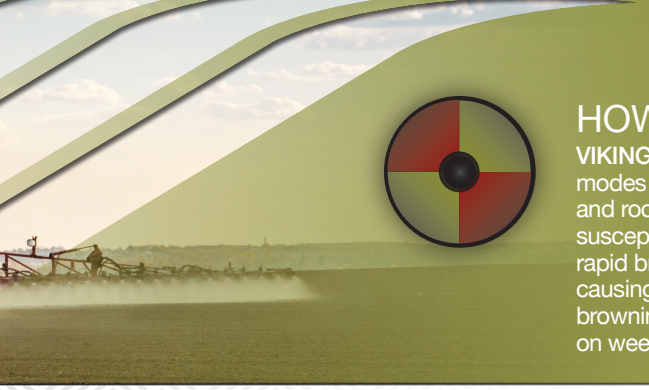
- Minimum 10 US gallons/acre (40 L/acre)

SURFACTANT:

- None required when when mixed with glyphosate.

RAINFAST:

- 1 hour



HOW VIKING YSTAD WORKS:

VIKING Ystad Herbicide contains two active ingredients with contact and systemic modes of action. This combination of active ingredients is rapidly absorbed by foliage and roots, inhibits cell elongation and disrupts metabolism stopping the growth of susceptible weeds almost immediately. This action results in leaky cell membranes and rapid browning and death. The dicamba component mimics plant growth regulators causing swelling, thickening and twisted weed growth followed by yellowing and browning, resulting in plant mortality. Degree of control and duration of effect depends on weed sensitivity, weed size, spray coverage and growing conditions.

CROP STAGING

- Apply when weed seedlings have emerged and are actively growing. Weeds that have not emerged will not be controlled.

CROP ROTATIONS:

- All major crops may be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*:

- **VIKING 540 Glyphosate Herbicide**

GRAZING RESTRICTIONS:

- Lactating dairy animals may graze fields 7 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

PREHARVEST INTERVAL:

- Harvest forage or cut hay 30 days after application.

STORAGE:

- Store product in original container

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. Add the required amount of **VIKING Dicamba Herbicide**.
3. Add the required amount of **VIKING Carfentrazone Herbicide**.
4. Add the required amount of **VIKING 540 Glyphosate Herbicide**.
5. Add the required amount of surfactant, then fill the tank with the balance of required water and apply.
6. Product must be applied within 24 hours in order to remain effective.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

This product must be mixed with glyphosate.. Best control will occur when applied between 10° and 25° C in warm moist growing conditions when weeds are small and actively growing. Degree and duration of control will depend on weed sensitivity, weed size, spray coverage and growing conditions. Always ensure thorough spray coverage of target weeds. Typical symptoms (discoloration, curled leaves, twisted stems, swollen nodes, or cupped leaves) of dying weeds may not be noticeable for 10 – 14 days after application depending upon growing conditions. Control of weeds may take 3-4 weeks. Avoid application when crop is under stress from adverse environmental conditions. Do not spray if risk of frost or severe drop in nighttime temperatures is forecast. Under certain stress conditions, such as drought, cool temperatures or where extremely hard water (> 700 ppm Ca + Mg) will be used, use 5 US gallons/acre of water to help improve results. For field corn, do not use on sandy or sandy loam soil with less than 2.5% organic matter. Dicamba may drift into susceptible crops and result in injury - do not apply in conditions favoring thermal inversions, or when winds are blowing towards susceptible plants.

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GRASS CONTROL HERBICIDE

VIKING™ CLETHODIM

Herbicide



Ferocious™, outstanding, reliable wild oat and grass weed control with convenient low use rates, a wide window of application and no re-cropping restrctions in canola (all types), pulse crops, flax and other crops.

GROUP 1

REPLACES: Centurion®

REGISTERED CROPS AND USES

- Canola
- Flax
- Field peas
- Chickpeas
- Lentils
- Dry beans
- Soybeans
- Mustard
- Seedling alfalfa
- Sunflowers
- Potatoes
- Dry onions
- See product label for complete list of registered crops.

WEEDS CONTROLLED

At 76 mL/acre rate (40 acres/case):

- Wild oats
- Volunteer cereals (wheat, barley, oats)
- Green foxtail
- Yellow foxtail
- Persian darnel
- Crabgrass (smooth and large)
- Proso millet
- Witchgrass
- Fall panicum
- Barnyard grass
- Volunteer corn
- Volunteer canary grass
- Quackgrass (suppression)

ACTIVE INGREDIENT

- Clethodim: 240 g/L emulsifiable concentrate

APPLICATION RATE AND ACRES TREATED

- **Rate**: 50-150 mL/acre (76 mL/acre is a common use rate)
- **Acres treated**: 20-60 acres/jug (40 acres/jug is a common use rate)
- See “weeds controlled” section or product label for weed-specific application rates.

PACKAGE SIZE

- **Case**: 3 L jug + 9 L jug surfactant

WATER VOLUME

- **Ground**: 5 - 20 US gallons/acre (20 – 40 L/acre)
- **Aerial**: 3 - 6 US gallons/acre (12 – 24 L/acre)
- See label for crop specific application guidelines.

SURFACTANT

- Included.
- Use rate is 5 - 10 L per 1,000 L water (0.5% v/v)

RAINFAST

- 1 hour



HOW VIKING CLETHODIM WORKS:

A non-selective, systemic herbicide that moves from the foliage into the growing points of leaves, shoots and roots and kills the entire plant. Thorough coverage of susceptible weeds and good growing conditions are required for optimum control.

CROP STAGING

- **Crop stage:**
  Canola, flax, Field peas, chickpeas, lentils, dry beans, soybeans, mustard, seedling alfalfa, sunflowers, potatoes, dry onions: All stages of growth.
  Chickpeas: Up to 9 nodes
- **Weed stage**:
  Grass weeds: 2 – 6 leaf unless otherwise indicated

CROP ROTATIONS

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **Glyphosate tolerant canola: VIKING 540 Glyphosate Herbicide, VIKING Clopyralid Herbicide**
- **LibertyLink® canola**: **VIKING Glufosinate 150 Herbicide**
- **Flax: VIKING Clopyralid Herbicide, VIKING Drammen Herbicide, VIKING Hamar Herbicide**
- **Field peas: VIKING Bentazon Herbicide, VIKING Imazamox Herbicide, VIKING Imazethapyr Herbicide**
- **Clearfield® Lentils: VIKING Imazamox Herbicide**
- **Glyphosate tolerant soybeans: VIKING 540 Glyphosate Herbicide**
- Please consult the product label for additional tank mixes, application rates and use guidelines.

GRAZING RESTRICTIONS

- Treated fields may be grazed or harvested for forage or hay for 60 days after application for annual crops or 30 days for seedling alfalfa.

PREHARVEST INTERVAL

See table below for pre-harvest interval by crop.

PRE-HARVEST AND GRAZING INTERVALS IN DAYS

CROP	PHI
Chickpeas	60
Canola	60
Dry beans	60
Lentils	60
Field peas	75
Flax	60
Seedling alfalfa	30
Soybeans	75
Mustard	60

STORAGE

- Store this product away from food or feed. Heated storage is not required. If product is frozen warm to room temperature and agitate before use.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. If required, add the correct amount of dry formulation tank mix partners.
3. If required add the correct amount of liquid formulation tank mix partners.
4. Add the correct amount of **VIKING Clethodim Herbicide**, followed by required amount of surfactant.
5. Fill the spray tank and apply product.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

PERFORMANCE TIPS

Best control will occur when applied between 12°C and 24°C in warm moist growing conditions when weeds are small and actively growing. Higher use rates are required for bigger weeds. Typical symptoms (discoloration) of dying weeds may not be visible for 1-3 weeks after application, depending on the grass species and growing conditions. Control of weeds may take up to 4 weeks. Control will be reduced if plants are stressed by drought, excessive moisture, low temperature and/or very low relative humidity. Regrowth by tillering may occur if application is made under any of the above stress conditions. In wide row crops with open crop canopy, cultivation may be necessary to control grasses that emerge after treatment.

Always read and follow all label precautions and directions.

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GRASS CONTROL HERBICIDE

VIKING™ CLODINAFOP

Herbicide



Ferocious™, trusted and proven control of wild oats and grass weeds plus a long list of tank mix options, a wide window of application, and no-recropping restrictions in spring and durum wheat.

GROUP 1

REPLACES: Horizon®

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat

WEEDS CONTROLLED

- Wild oats[1]
- Volunteer tame oats
- Green foxtail
- Yellow foxtail
- Barnyard grass
- Volunteer canary seed
- Persian darnel[2]

[1] Not including group1 esistant biotypes.
[2] Requires 63 acre/case rate (high rate) plus 1.0% v/v **VIKING Crop Oil Concentrate**.

ACTIVE INGREDIENT

- Clodinafop 240 g/L emulsifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED

- 93 mL/acre (low rate)
- 117 mL/acre (high rate)
- **Acres treated**: 63- 80 acres.
- See product label for weed specific application rates.

PACKAGE SIZE

- **Case**: 7.36 L jug of **VIKING Clodinafop Herbicide** + 15 L jug of **VIKING Crop Oil Concentrate**

WATER VOLUME

- **Ground**: 5 - 20 US gallons/acre (20 – 40 L/acre)
- **Aerial**: 3 US gallons/acre. (12 L/acre)

SURFACTANT

- **VIKING Crop Oil Concentrate** at 8 L per 1,000 L of water

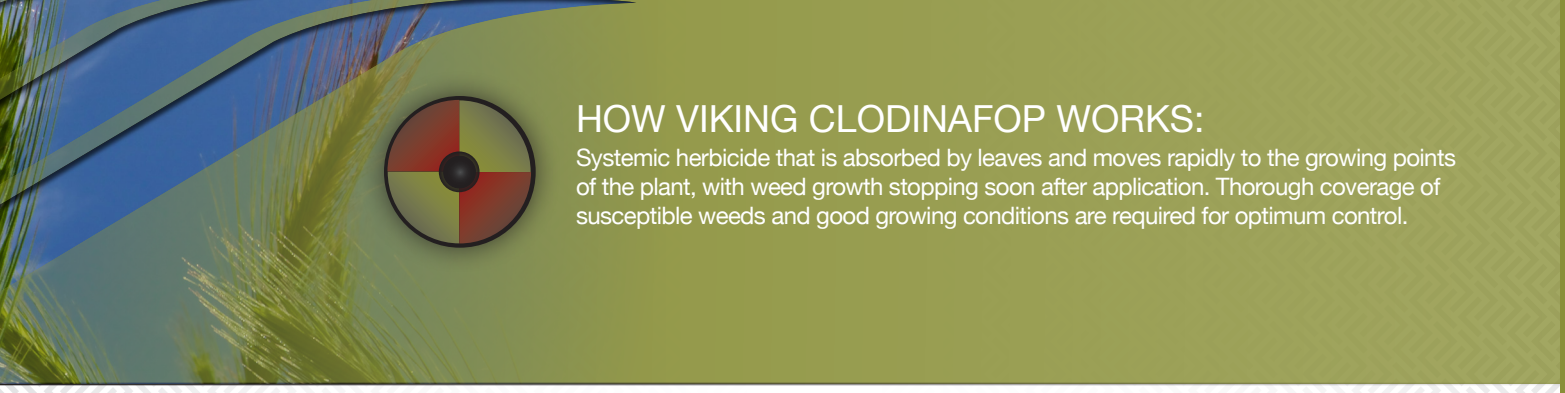
RAINFAST

- 30 minutes

Ferocious™ Protection for Canada's Crops.

VIKING

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HOW VIKING CLODINAFOP WORKS:

Systemic herbicide that is absorbed by leaves and moves rapidly to the growing points of the plant, with weed growth stopping soon after application. Thorough coverage of susceptible weeds and good growing conditions are required for optimum control.

CROP STAGING:

- **Crop stage**:
  1-6 leaf prior to emergence of 4th tiller
- **Weed stage**:
  Wild oats, canary seed: 1-6 leaf on main stem
  Barnyard grass, Persian darnel, green foxtail, yellow foxtail: 1-5 leaf on the main stem
  Volunteer oats: 3-6 leaf stage on the main stem

CROP ROTATIONS:

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*:

- **VIKING 2,4-D Ester 700 Herbicide, VIKING MPCA Ester 600 Herbicide, VIKING Brevik Herbicide, VIKING Drammen Herbicide, VIKING Hamar Herbicide, VIKING Larvik Herbicide, VIKING Lidingo Herbicide, VIKING Navik Herbicide, VIKING Stavanger Herbicide, VIKING Trycka Herbicide,** Paradigm™, Pixxaro™, Exhilarate™.
- See product label for additional tank mix options.

GRAZING RESTRICTIONS:

- Do not graze or feed to livestock within 3 days of application.

PREHARVEST INTERVAL:

- Mature crop may be harvested 60 days after application.

STORAGE:

- Store this product away from food or feed. Store in original container and out of reach of children, preferably in a locked storage area. Product may be frozen.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. If using a dry broadleaf herbicide, insecticide or fungicide add the required rate and dissolve.
3. Add the required amount of liquid formulation broadleaf herbicide, insecticide, or fungicide.
4. Add the required amount of **VIKING Clodinafop Herbicide** and agitate for several minutes.
5. Add the correct amount of **VIKING Crop Oil Concentrate Adjuvant** and agitate for 1-2 minutes before adding the remainder of water.
6. If application is stopped prior to completion, resuspend spray solution prior to commencing spraying.
7. If an oil film starts to build up in the tank, drain tank and then clean with a detergent.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when applied between temperatures of 15° C and 27° C in warm moist growing conditions when weeds are actively growing. Use higher water volumes with a dense crop canopy and/or large weeds. Typical symptoms (discoloration) may not be noticeable for 1-2 weeks depending on growing conditions and weed susceptibility. Weed control can be reduced or delayed under stress conditions such as drought, heat, insufficient fertility, flooding, insect or disease damage, or prolonged cool temperatures. Application under stress conditions may also cause crop damage and weed re-growth. Do not tank mix **VIKING Clodinfop Herbicide** with 2,4-D Amine or MCPA Amine as a reduced control of green foxtail and wild oats may occur.

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GRASS CONTROL HERBICIDE

VIKING™ FENOXAPROP

Herbicide



Ferocious™, proven and affordable control of wild oats, green and yellow foxtail, and barnyard grass plus numerous tank mix options and a wide window of application in spring wheat, durum wheat and barley.

GROUP 1

REPLACES: Puma®

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Barley (must be tank mixed)

WEEDS CONTROLLED

- Wild oats
- Green foxtail
- Yellow foxtail
- Barnyard grass

ACTIVE INGREDIENT

- Fenoxaprop-p-ethyl 120 g/L emulsifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED

- **Application rate:** 312 mL/acre
- **Acres Treated:** 80 acres/case

PACKAGE SIZE

- **Case:** 2 X 12.4 L jugs
- **Bulk**: 99 L , 500 L

WATER VOLUME

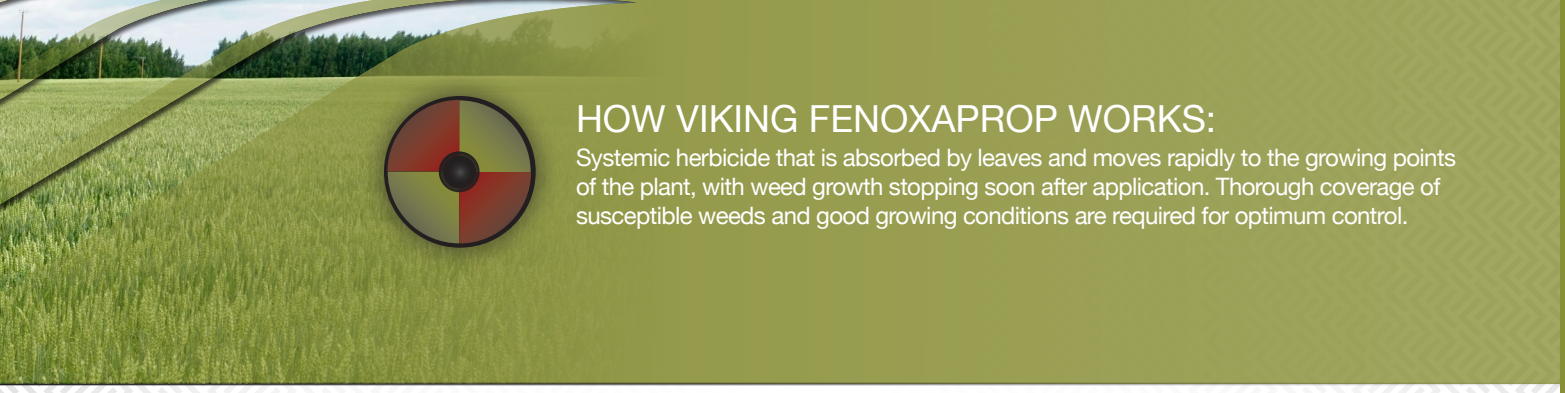
- **Spring wheat, Durum wheat:** 5-10 US gallons/acre (20 – 40 L/acre)
- **Barley:** 10 US gallons/acre (40 L/acre)

SURFACTANT

- None required

RAINFAST

- 1 hour



HOW VIKING FENOXAPROP WORKS:

Systemic herbicide that is absorbed by leaves and moves rapidly to the growing points of the plant, with weed growth stopping soon after application. Thorough coverage of susceptible weeds and good growing conditions are required for optimum control.

CROP STAGING

- **Crop stage**:
  Spring and Durum wheat: 1 - 6 leaf on the main stem plus 3 tillers.
  Barley: 1 - 5 leaf on the main stem plus 2 tillers
- **Weed stage**: 1 – 6 leaf stage up to emergence of 3rd tiller

CROP ROTATIONS

- All major crops can be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Brevik Herbicide, VIKING Clopyralid Herbicide, VIKING Drammen Herbicide, VIKING Hamar Herbicide, VIKING Larvik Herbicide, VIKING Lidingo Herbicide, VIKING Navik Herbicide, VIKING Stavanger Herbicide, VIKING Trykca Herbicide, VIKING 2,4-D Ester 700 Herbicide, VIKING MPCA Ester 600 Herbicide,** Paradigm™, Pixxaro™, Exhilarate™
- **VIKING Kalmar Herbicide** (spring and durum wheat only)
- See product label for additional tank mix options.

GRAZING RESTRICTIONS

- Treated crop may be grazed or fed to livestock 25 days after application.

PREHARVEST INTERVAL

- Mature crop may be harvested 65 days after application.

STORAGE

- Store this product away from food or feed. Store in original container and out of reach of children, preferably in a locked storage area. Keep product from freezing; if stored for 1 year or longer, shake well before using.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add required rate of any tank mix partners.
3. Slowly add the required rate of **VIKING Fenoxaprop Herbicide.**
4. Add the required rate of any surfactant if needed.
5. Add the remainder of the water and apply.
6. Do not leave the spray mixture in the sprayer overnight. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur at temperatures between 12°C C and 24°C in warm moist growing conditions when weeds are small and actively growing. Use higher water volumes with a dense crop canopy or larger weeds. Typical symptoms (discoloration) may not be noticeable for 1-2 weeks depending on growing conditions and weed susceptibility. Control of weeds may take 3-4 weeks. Weed control can be reduced or delayed or the risk of crop jury can increase if applied under stress conditions such as drought, heat, insufficient fertility, flooding, insect or disease damage, or prolonged cool temperatures. Application outside the recommended leaf stage or overlap during application will increase the risk of crop injury. Do not use **VIKING Fenoxaprop Herbicide** alone in barley as temporary crop injury can expected. Always tank mix with a supported broadleaf tank mix partner.

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GRASS CONTROL HERBICIDE

VIKING™ FLUCARBAZONE

Herbicide



Ferocious™, proven control of wild oats (including Group 1 resistant biotypes), and other grass weeds plus residual control, early weed removal, and numerous tank mix options in spring and durum wheat.

GROUP 2

REPLACES: Everest®

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat

WEEDS CONTROLLED

- Green foxtail[1]
- Volunteer tame oats
- Wild oats[1]
- Green smartweed
- Redroot pigweed
- Shepherd's purse
- Stinkweed
- Volunteer canola[2]
- Wild mustard

[1] Including Group 1 resistant biotypes.
[2] Group 2 tolerant biotypes will not be controlled.

ACTIVE INGREDIENT

- Flucarbazone 70% wettable granule (WG)

APPLICATION RATE AND ACRES TREATED

- **Recommended rate**: 14.2 grams/acre
- **Acres treated**: 40 acres/bottle
- See product label for additional application rates

PACKAGE SIZE

- **Case**: 567 grams

WATER VOLUME

- 5-10 US gallons/acre (20 – 40 L/acre)

SURFACTANT

- Agral® 90 at 2.5 L per 1,000 L of water

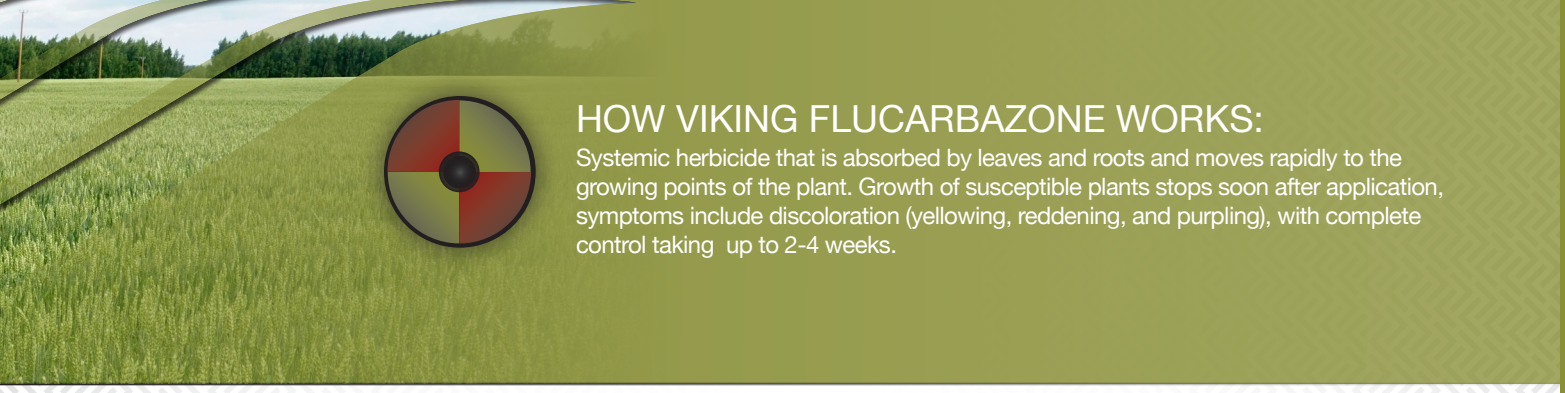
RAINFAST

- 1 hour

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VIKING

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HOW VIKING FLUCARBAZONE WORKS:

Systemic herbicide that is absorbed by leaves and roots and moves rapidly to the growing points of the plant. Growth of susceptible plants stops soon after application, symptoms include discoloration (yellowing, reddening, and purpling), with complete control taking up to 2-4 weeks.

CROP STAGING

- **Crop stage**: 1–4 leaf, 2 tillers
- **Weed stage**:
  Grass weeds: 1–4 leaf, 2 tillers
  Broadleaf weeds: 2–6 leaf

CROP ROTATIONS

RE-CROPPING OPTIONS BY SOIL ZONE

Grey Wooded	Black	Dark Brown	Brown
Spring wheat	Spring wheat	Spring wheat	Spring wheat
Barley	Barley	Barley	
Canola	Canola	Canola	
Field peas*	Field peas*	Field peas*	
	Field beans	Flax	
	Flax	Durum wheat	
	Durum wheat		

* Field peas can be successfully grown the year after application of **VIKING Flucarbazone Herbicide** provided the following three criteria are met:

- Soil pH must be below 7.5.
- Organic matter content must be above 4%.
- Precipitation must be equal to or above the 10-year average (minimum 100 mm) within 60 days of application in the year of application.
- Or fields can be summerfallowed.

REGISTERED AND SUPPORTED TANK MIXES*

- **Viking Brevik Herbicide, Viking Bodo Herbicide, Viking Drammen Herbicide, Viking Hamar Herbicide, VIKING Harstad Herbicide, Viking Kalmar, VIKING Larvik Herbicide, Viking Lidingo Herbicide, Viking Navik Herbicide, Viking Stavanger Herbicide, VIKING Trykca Herbicide, Viking 2,4-D 700 Herbicide and Viking MCPA Ester 600 Herbicide**, MCPA Amine or Ester, Exhilarate™, Paradigm™, Pixxaro™.
- See product label for complete list of tank mix options.

GRAZING RESTRICTIONS

- Do not graze treated fields or use green crop for feed.
- Wheat grain or straw from harvested treated fields may be fed to livestock.

PREHARVEST INTERVAL

- Mature crop may be harvested 80 days after application.

STORAGE

- Store this product away from food or feed. Store in original container and out of reach of children, preferably in a locked storage area. Product may be frozen.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Ensure the spray tank, in-line strainers and nozzle screens are clean. Use in-line strainers and nozzles 50 mesh or coarser.
3. Add the required rate of **VIKING Flucarbazone Herbicide** and continue agitation until product is fully dissolved.
4. Add the required amount of broadleaf herbicide.
5. Add the required amount of surfactant, complete filling tank with balance of water, and apply product.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to resuming spraying.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when applied between 12°C and 24°C in warm moist growing conditions when weeds are small. Reduced activity will occur at temperatures less than 8° C or more than 27° C. Use higher water volumes for thicker crop canopy or heavier weed pressure. Typical symptoms (discoloration) of dying weeds may not be noticeable for several days to 2 weeks after application, depending upon growing conditions. Control of weeds may take up to 3-4 weeks. Frost 3 days before or after application may reduce weed control and crop tolerance. Weed control may be reduced during stress conditions or if weed populations are heavy or too far advanced. Crops exposed to water-logged or saturated soils, or temperature extremes such as heat or freezing weather, or drought, low fertility or plant disease at application time could show unacceptable injury symptoms. Weed control also may be reduced by these same conditions.

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GRASS CONTROL HERBICIDE

VIKING™ PINOXADEN 50

Herbicide

Ferocious™, proven, high-performance control of wild oats and grass weeds plus a long list of tank mix options a wide window of application, and excellent crop safety in spring wheat and barley.

GROUP 1

REPLACES: Axial®

REGISTERED CROPS AND USES

- Spring wheat
- Barley

WEEDS CONTROLLED

- Wild Oats,
- Green Foxtail
- Yellow Foxtail
- Barnyard Grass
- Volunteer Oats
- Volunteer Canary Seed
- Proso Millet

ACTIVE INGREDIENT

- Pinoxaden 50 g/L emulsifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED

- **Application rate:** 500 mL/acre
- **Acres Treated:** 40 acres

PACKAGE SIZE

- **Case:** 2 x 10 L
- **Bulk**: 120 L drum, 480 L or 1,000 L tote

WATER VOLUME

- **Ground**: 5-10 US gallons/acre (20-40 L/acre)
- **Aerial**: 3 US gallons/acre. (12 L/acre)

SURFACTANT

- Not required

RAINFAST

- 1 hour

HOW VIKING PINOXADEN 50 WORKS:

Systemic herbicide that is absorbed by leaves and moves rapidly to the growing points of the plant, with weed growth stopping soon after application. Thorough coverage of susceptible weeds and good growing conditions are required for optimum control.

CROP STAGING

- **Crop stage:**
  1 leaf to flag leaf
- **Weed stage:**
  1-6 leaf prior to the 4th tiller

CROP ROTATIONS

- All major crops can be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING MPCA Ester 600 Herbicide, VIKING Bodo Herbicide, VIKING Brevik Herbicide, VIKING Drammen Herbicide, VIKING Hamar Herbicide, VIKING Harstad Herbicide, VIKING Larvik Herbicide, VIKING Lidingo Herbicide, VIKING Navik Herbicide, VIKING Stavanger Herbicide, VIKING Trycka Herbicide,** Paradigm™, Pixxaro™, Exhilarate™.
- See product label for additional tank mix options.

GRAZING RESTRICTIONS

- Do not graze or feed to livestock within 7 days of application.

PREHARVEST INTERVAL

- **Grain and Straw**: Mature crop may be harvested 60 days after application.
- **Hay**: Mature crop may be harvested 30 days after application.

STORAGE

- Store this product away from food or feed. Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area away from feed and foodstuffs, and out of the reach of children and animals. Keep away from fire or open flame, or other sources of heat. If frozen, allow to thaw and agitate thoroughly prior to use.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. If using a dry broadleaf herbicide, insecticide or fungicide add the required rate and agitate until dissolved.
3. Add the required amount of liquid formulation broadleaf herbicide, insecticide, or fungicide.
4. Add the required amount of **VIKING Pinoxaden Herbicide** and agitate for several minutes.
5. If application is stopped prior to completion, re-suspend spray solution prior to commencing spraying.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when applied between temperatures of 15° C and 27° C in warm moist growing conditions when weeds are actively growing. Use higher water volumes with a dense crop canopy and/or large weeds. Actively growing weeds will stop growing within 48 hours of treatment. Typical symptoms (yellow leaves and growing points) may not be noticeable for 1-3 weeks depending on growing conditions. Weed control can be reduced or delayed under stress conditions such as drought, heat, insufficient fertility, flooding, insect or disease damage, or prolonged cool temperatures. Application under stress conditions may also cause crop damage and weed re-growth. Do not tank mix **VIKING Pinoxaden Herbicide** with 2,4-D amine or ester as reduced weed control will occur.

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GRASS CONTROL HERBICIDE

VIKING™ QUIZALOFOP

Herbicide



Ferocious™, powerful control of wild oats plus control or suppression of 10 additional grass weeds, including improved control of foxtail barley, Japanese brome, and quackgrass (spring seedlings), plus a wide window of application and numerous tank mix options for use in many different crops.

GROUP 1

REPLACES: Assure®

REGISTERED CROPS AND USES

- Alsike clover
- Camelina
- Canola
- Chickpeas
- Common dry beans
- Crambe
- Creeping red fescue
- Cucurbit vegetables
- Fababeans
- Flax
- Hemp
- Lentils
- Lupins
- Mustards (oriental, brown)
- Carinata
- Peas
- Red clover
- Seedling legumes (seed production)
- Snap beans
- Soybeans
- Sugar beets
- See product label for complete list of registered crops.

WEEDS CONTROLLED

200 mL/acre (107 acres/case) rate:

Barnyard grass	2 leaf to early tillering
Green foxtail	2 leaf to early tillering
Fall panicum	2 leaf to early tillering
Foxtail barley[1]	3 – 4 leaf + 3 tillers
Japanese brome[1]	2-5 leaf stage
Old witchgrass	2 leaf to early tillering
Proso millet	2 leaf to early tillering
Quackgrass[1]	suppression, 2-6 leaf
Wild Oats	1-5 leaf, up to 2 tillers
Volunteer cereals	2 leaf to early tillering
Volunteer corn	2 – 6 leaf
Yellow foxtail	2 leaf to early tillering

[1] Spring seedlings only. Quiz will not control established plants or plants beyond the 6-leaf stage.

ACTIVE INGREDIENT

- Quizalofop: 240 g/L emulsifiable concentrate

APPLICATION RATE AND ACRES TREATED

- **Rate**: 150-300 mL/acre (200 mL/acre is the most common use rate)
- **Acres treated**: 53-107 acres/case (80 acres/case is the most common use rate)
- See product label for weed-specific application rates.

PACKAGE SIZE

- **Case**: 2 x 8 L jugs
- **Bulk**: 96 L, 500 L

WATER VOLUME

- 10 US gallons/acre (40 L/acre)

SURFACTANT

- **VIKING PHC Adjuvant** or Merge® at 5 – 10 L per 1,000 L spray solution or Sure-Mix™ at 5 L per 1,000 L spray solution

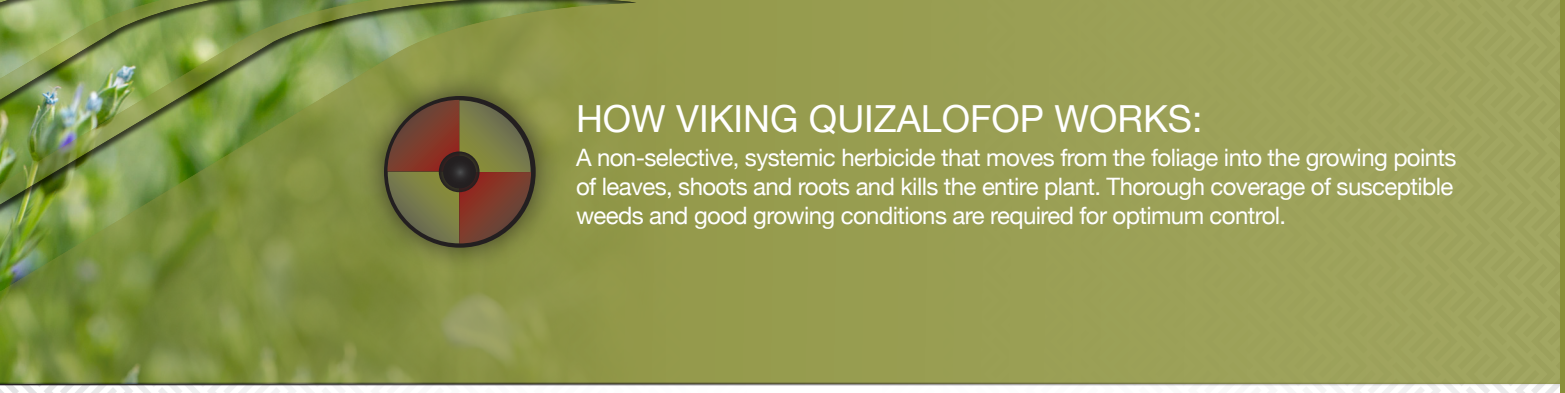
RAINFAST

- 1 hour

Ferocious™ Protection for Canada's Crops.

VIKING

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HOW VIKING QUIZALOFOP WORKS:

A non-selective, systemic herbicide that moves from the foliage into the growing points of leaves, shoots and roots and kills the entire plant. Thorough coverage of susceptible weeds and good growing conditions are required for optimum control.

CROP STAGING

- **Crop stage**: No crop staging restrictions.
- **Weed stage**: 2 leaf to early tiller unless otherwise indicated

CROP ROTATIONS

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **Glyphosate tolerant canola: VIKING 540 Glyphosate Herbicide**
- **LibertyLink® canola: VIKING Glufosinate 150 Herbicide**
- **Field peas: VIKING Bentazon Herbicide VIKING Imazamox Herbicide, VIKING Imazethapyr Herbicide, VIKING Skien Herbicide**
- **Glyphosate tolerant soybeans: VIKING 540 Glyphosate Herbicide**
- **Pino, Pink, Great northern and Small red beans: VIKING Bentazon Herbicide**
- **Fescue**: Ally®
- **Soybeans**: Pinnacle®
- Please consult the product label for additional tank mixes, application rates and use guidelines.

GRAZING RESTRICTIONS

- Do not graze treated fields or harvest for forage or hay.

PREHARVEST INTERVAL

CROP	PHI	CROP	PHI	CROP	PHI
Chickpeas	85	**Lentils**	65	**Seedling alfalfa**	30
Canola	64	**Field peas**	65	**Soybeans**	80
Dry beans	30	**Flax**	82		

STORAGE

- Store this product away from food or feed. Not for use or storage in or around the home. Keep container closed. Do not freeze.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. If required, add dry formulation tank mix partners first,
3. If required, add liquid formulation tank mix partners.
4. Add correct amount of **VIKING Quizalofop Herbicide**, followed by correct amount of surfactant.
5. Complete filling of spray tank, apply product, and continue application until the tank is empty.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when applied between 12°C and 24°C in warm moist growing conditions when weeds are small and actively growing. Use the higher rate of surfactant when wild oats or quackgrass are the main target weeds, or under stressful growing conditions. Typical symptoms (discoloration) of dying weeds may not be visible for several days to 1-2 weeks after application, depending on the grass species and growing conditions. Control of weeds may take 3-4 weeks. Control will be reduced if weeds are stressed due to drought, extreme cold or hot temperatures, or if there is improper mixing, application timing, or poor coverage.

VIKING Quizalofop Herbicide should not be mixed with MCPA, Curtail™ M, Buctril® M, **VIKING MCPA Herbicide, VIKING Drammen Herbicide, or VIKING Hamar Herbicide** in flax due to antagonism with products that contain MPCA.

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CEREAL BROADLEAF HERBICIDE

VIKING™ 2,4-D ESTER 700

Herbicide



Ferocious™, cost-effective and proven control or suppression of redroot pigweed, wild mustard, lamb's quarters, and shepherd's purse plus 46 broadleaf weeds, a wide window of application, and excellent crop safety.

GROUP 4

REPLACES: 2,4-D Ester 700

REGISTERED CROPS AND USES

- Wheat

WEEDS CONTROLLED

at 200-320 mL/ac*

- Annual sunflower
- Bluebur
- Burdock
- Cocklebur
- Field horsetail[1]
- Flixweed
- Goats beard
- Hoary cress[1]
- Kochia
- Lamb's-quarters
- Mustard (except dog and green tansy)
- Plantain
- Prickly lettuce
- Ragweeds
- Russian knapweed
- Russian thistle
- Shepherd's purse
- Stinkweed
- Sweet clover
- Setch
- Wild radish

at 360-520 mL/ac*†

- Biennial wormwood
- Blue lettuce[1]
- Canada thistle[1]
- Docks
- Dandelion
- Dog mustard
- Field bindweed[1]
- Field peppergrass
- Gumweed
- Hairy galinsoga
- Hedge bindweed
- Lady's thumb
- Leafy spurge[1]
- Oak leaf goosefoot
- Perennial sow-thistle[1]
- Redroot pigweed
- Russian thistle
- Smartweed
- Tansy
- Tartary buckwheat
- Tumbleweed
- Wild buckwheat[2]

ACTIVE INGREDIENT

- 2,4-D Ester 660 g ae/L emulsifiable concentrate

APPLICATION RATE AND ACRES TREATED

- Application rate and acres treated will vary by weed species and weed size.
- See product label or Weeds Controlled section for full list of weeds and recommended use rates.

PACKAGE SIZE

- **Case:** 2 X 10 L jugs
- **Tote:** 510 L

WATER VOLUME

- 5-20 US gallons/acre (20 – 80 L/acre)
- Application rate is equipment dependent.

SURFACTANT

- Not required.

RAINFAST

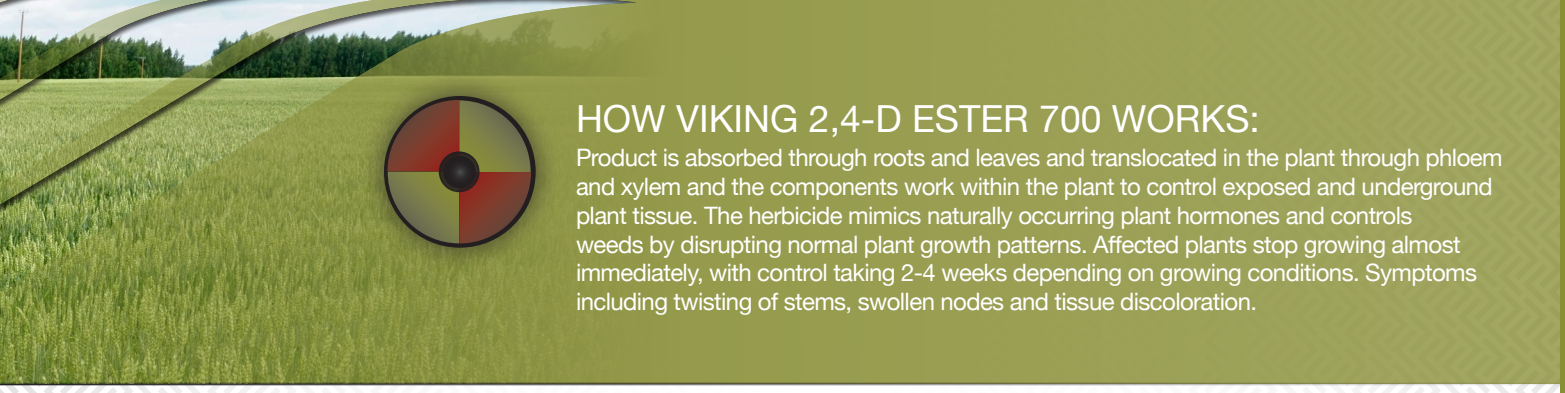
- Minimum 2 hours
- Avoid application when heavy rain is forecast.

* Higher rates MUST be used for larger weeds, dry or cool weather, or heavy weed infestations.
[1] Top growth control only
[2] Better control will result from 2 treatments applied one week apart at 200 mL/acre
† The higher rates may cause deformities and delayed maturity which will be offset by a higher relative yield from a less weedy crop.

Ferocious™ Protection for Canada's Crops.

VIKING

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HOW VIKING 2,4-D ESTER 700 WORKS:

Product is absorbed through roots and leaves and translocated in the plant through phloem and xylem and the components work within the plant to control exposed and underground plant tissue. The herbicide mimics naturally occurring plant hormones and controls weeds by disrupting normal plant growth patterns. Affected plants stop growing almost immediately, with control taking 2-4 weeks depending on growing conditions. Symptoms including twisting of stems, swollen nodes and tissue discoloration.

CROP STAGING

- **Crop stage:** 4 leaf to early flag leaf
- **Weed stage:** 2-4 leaf. Larger weeds require higher application rates

CROP ROTATIONS

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- Many broadleaf and grass herbicide products support tank mixes with **Viking 2,4-D Ester 700.** See the tank mix partner label for supported crops and rates.

GRAZING RESTRICTIONS

- Graze lactating dairy animals 7 days after application.
- Withdraw meat animals from treated fields at least 3 days prior to slaughter .

PREHARVEST INTERVAL

- Harvest forage or cut hay 30 days after application.

STORAGE

- Store this product away from food or feed. This product must be stored away from fertilizers, seeds, insecticides, fungicides or other herbicides intended for use on 2,4-D sensitive crops

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and start agitation.
2. If required, add the correct amount of any dry formulation products.
3. If required, add the correct amount of grassy weed tank mix partner.
4. Add the required amount of **VIKING 2,4-D Ester 700 Herbicide**.
5. Add any required surfactant.
6. Complete filling of sprayer and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when product is applied between 12° C and 24° C in warm, moist growing conditions. Good coverage is essential. Use higher water volumes in heavy canopy or weed pressure. High water volumes can reduce the risk of crop injury. Typical symptoms of dying weeds will be visible within several days after application depending on growing conditions. Control of weeds may take up to 2-3 weeks. Optimum weed control will occur when applied at the 2-4 leaf stage of the weeds. Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury. Weed control may be reduced during stress conditions, e.g. drought, heat or cold stress, if weeds have initiated flowering, or if heavy infestations exist.

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CEREAL BROADLEAF HERBICIDE

VIKING™ MCPA ESTER 600

Herbicide

Ferocious™, cost-effective, and proven control or suppression of lamb's-quarters, redroot pigweed, stinkweed, and tartary buckwheat plus 39 additional broadleaf weeds, a wide window of application and excellent crop safety.

GROUP 4

REPLACES: MCPA Ester 600

REGISTERED CROPS AND USES

- Wheat
- Barley
- Oats
- Spring and fall rye
- Flax
- Established grasses
- Alfalfa
- Alsike
- Red clover

WEEDS CONTROLLED

at 240-360 mL/ac†

- Burdock (before the 4 leaf stage)
- Cocklebur
- Common plantain
- Common ragweed
- False ragweed
- Flixweed*
- Giant ragweed
- Lamb's-quarters
- Mustards (except Dog and Tansy mustard)
- Prickly lettuce
- Russian pigweed**
- Shepherd's purse**
- Stinkweed
- Vetch
- Wild radish
- Wild (annual) sunflower
- See label for a complete list of registered crops and uses.

* Flixweed susceptible only at seedling stage. Use higher rate for fall germinated seedlings.
** Use higher rate only on these species.

at 420-610 mL/ac†

- Annual sow-thistle
- Biennial wormwood
- Blue lettuce*
- Bluebur
- Canada thistle*
- Corn spurry*
- Curled dock
- Dandelion
- Dog mustard
- Field bindweed*
- Field Horsetail*
- Field peppergrass
- Goat's-beard
- Gumweed
- Hairy galinsoga
- Hedge bindweed*
- Hemp-nettle (before 4 leaf stage)
- Hoary cress*
- Kochia
- Lady's-thumb*
- Leafy spurge*
- Oak-leaved goosefoot
- Perennial sow-thistle*
- Purslane
- Redroot pigweed
- Russian knapweed*
- Russian thistle
- Smartweed*
- Sweet clover (seedling)
- Tansy mustard
- Tartary Buckwheat

* Top growth control only.
† Use higher rates for larger weeds, dry or cool weather, or heavy weed infestations.

ACTIVE INGREDIENT

- MCPA Ester 600 g ae/L emulsifiable concentrate

APPLICATION RATE AND ACRES TREATED

- Application rate and acres treated will vary by weed species and size
- See product label or Weeds Controlled section for full list of weeds and recommended use rates.

PACKAGE SIZE

- **Case:** 2 X 10 L jugs
- **Drum:** 115 L
- **Tote:** 500 L

WATER VOLUME

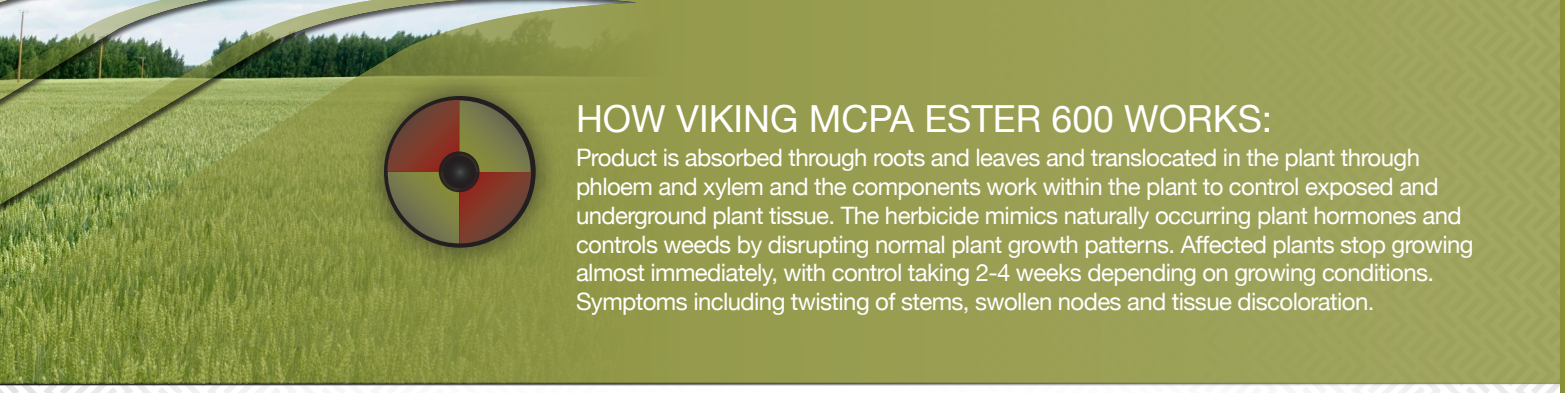
- **Ground**: 10-25 US gallons/acre (40 – 100 L/acre)
- **Aerial**: Minimum 3 US gallons/ac (12 L/ac)
- Higher water volumes can reduce the risk of crop injury, particularly in oats and flax.

SURFACTANT

- None required.

RAINFAST

- Minimum 2 hours.
- Avoid application when heavy rain is forecast.



HOW VIKING MCPA ESTER 600 WORKS:

Product is absorbed through roots and leaves and translocated in the plant through phloem and xylem and the components work within the plant to control exposed and underground plant tissue. The herbicide mimics naturally occurring plant hormones and controls weeds by disrupting normal plant growth patterns. Affected plants stop growing almost immediately, with control taking 2-4 weeks depending on growing conditions. Symptoms including twisting of stems, swollen nodes and tissue discoloration.

CROP STAGING

- **Wheat, Barley, Rye**: 3 leaf to early flag leaf
- **Oats**: 1 leaf to early flag leaf
- **Fall rye and winter wheat**: Spring application only between full tillering and the shot blade stage
- **Flax**: 5 cm in height to early bud stage
- **Established grasses, alfalfa, alsike and red clover**: very early in the spring, before the growth of perennial forages has begun.

CROP ROTATIONS

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- Many broadleaf and grass herbicide products support tank mixes with **Viking MCPA Ester 600 Herbicide**. See the tank mix partner label for supported crops and rates.

GRAZING RESTRICTIONS

- Graze fields 7 days after application.
- Dairy animals may graze fields 7 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

PREHARVEST INTERVAL

- Harvest forage or cut hay 7 days after application.

STORAGE

- Store this product away from food or feed. Keep in original container during storage. May be stored at any temperature.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and start agitation.
2. If required, add the correct amount of any dry formulation products.
3. If required, add the correct amount of grassy weed tank mix partner.
4. Add the required amount of **VIKING MCPA Ester 600 Herbicide**.
5. Add any required surfactant.
6. Complete filling of sprayer and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best results will occur with temperatures between 12°C and 24°C in warm moist conditions when weeds are smaller and actively growing. Use higher water volumes with heavier weed pressure, larger weeds and thicker crop canopy. Typical symptoms (twisting of the stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing condition at and following treatment, and spray coverage. When weeds are stressed due to drought, cold stress, flooding or prolonged hot or cool temperatures (less than 8°C or more than 27°C), control can be reduced or delayed since weeds are not actively growing. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory results are likely to occur.

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CEREAL BROADLEAF HERBICIDE

VIKING™ AVESTA

Herbicide



Ferocious™, proven, and powerful control of kochia, Russian thistle, narrow-leaved hawk's-beard cleavers, kochia and 47 tough-to-kill broadleaf weeds plus 3 modes of action, a wide window of application, excellent crop safety and multiple tank mix options in spring and durum wheat.

GROUP 2 AND 4

REPLACES: Retain®

REGISTERED CROPS AND USES

- Durum wheat
- Spring Wheat

WEEDS CONTROLLED

- Annual sow-thistle
- Annual smartweed
- Ball mustard
- Bluebur[1]
- Burdock[1]
- Chickweed[2]
- Cleavers
- Cocklebur
- Common ragweed
- Common groundsel
- Corn spurry
- Cow cockle
- Daisy fleabane
- False flax
- False ragweed
- Flixweed
- Goat's-beard
- Giant ragweed
- Hemp-nettle
- Kochia[3]
- Lamb's quarters
- Mustards (except dog and tansy)
- Narrow-leaved hawk's-beard
- Plantain
- Prickly lettuce
- Redroot pigweed
- Russian pigweed
- Russian thistle
- Shepherd's purse
- Stinging nettle
- Stinkweed
- Sweet clover (seedling)
- Tartary buckwheat
- Thyme-leaved spurge
- Volunteer canola
- Volunteer flax (1-12cm)
- Volunteer sunflower
- Wild buckwheat[5]
- Wild mustard
- Wild radish
- Wild sunflower

WEEDS SUPRESSED

- Canada thistle[6]
- Round-leaved mallow (2-6 leaf)[7]
- Scentless chamomile
- Sow thistle[6]
- Stork's-bill (2-6 leaf)
- Toadflax[8]

[1] Up to 4 leaf stage
[2] Apply when chickweed is small (1-6 leaf) and actively growing, but before canopy prevents thorough coverage. Chickweed emerging after application will not be controlled.
[3] Including Group 2 resistant biotypes
[4] Apply to actively growing wild buckwheat at the cotyledon to 3 leaf stage. Large plants may regrow after treatment.
[5] Top growth control only. For best results, apply before bud stage when thistles are no larger than 15 cm tall.
[6] Apply to actively growing mallow, plants will be stunted only.
[7] Apply when plants are less than 15 cm in height. A control program includes chemical application and frequent tillage.

ACTIVE INGREDIENTS

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- Thifensulfuron methyl 50% + Tribenuron methyl 25% wettable granule (WG)
- 2,4-D Ester 660 g/L emulsifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED

- **Rates**: 240 mL/acre **VIKING Fluroxypyr Herbicide** + 245 mL/acre of **VIKING 2,4-D Ester 700 Herbicide** + 8 grams/acre **VIKING Navik Herbicide**
- **Acres Treated**: 40 acres/case.

PACKAGE SIZE

Case: 1 X 9.6 L jug **VIKING Fluroxypyr Herbicide** + 1 x 9.8 L jug **VIKING 2,4-D Ester 700 Herbicide** + 1 X 320 g **VIKING Navik Herbicide**

WATER VOLUME

- 5 - 10 US gallons/acre (20 - 40 L/acre)

SURFACTANT

- Not required if mixed with a wild oat herbicide.
- If used alone, Agral® 90 or Ag-Surf® at 2 L per 1,000 L water.

RAINFAST

- 4 hours

Ferocious™ Protection for Canada's Crops.

VIKING

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HOW VIKING AVESTA WORKS:

Absorbed through leaves and roots and translocated in the plant through phloem and xylem, the components work within the plant to control exposed and underground plant tissue. With 2 modes of the action, product works by both disrupting the ALS enzyme and mimicking naturally occurring plant hormones, with weeds controlled by disrupting normal plant growth patterns. Affected plants stop growing almost immediately, with control taking 2-4 weeks depending on growing conditions. Symptoms including twisting of stems, swollen nodes and tissue discoloration.

CROP STAGING

- **Crop stage:** 4 leaf – flag leaf
- **Weed stage:** less than 10 cm in height or diameter**.**

CROP ROTATIONS

- All major crops can be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Clodinafop Herbicide**, **VIKING Fenoxaprop Herbicide†, VIKING Flucarbazone Herbicide**, Simplicity™˚, Traxos®

† Spring or durum wheat only
˚ Do not tank mix with Simplicity if adding additional 2,4-D Ester

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

GRAZING RESTRICTIONS

- Livestock may be grazed on treated areas 7 days after application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.

PREHARVEST INTERVAL

- Allow 7 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application.

STORAGE

- Store this product away from food or feed. Do not freeze. If product is frozen, bring to room temperature and agitate before use.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. Add the required amount of **VIKING Navik Herbicide** and agitate until dissolved.
3. If tank mixing, add the required amount of grassy weed control tank mix partner.
4. Add the required amount of **VIKING Fluroxypyr Herbicide.**
5. Add the required amount of **VIKING 2,4-D Ester 700 Herbicide.**
6. Add surfactant if required, then complete filling of spray tank, and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Use 50 mesh or larger screens in spraying equipment. Best control will occur when applied between 12°C and 24°C in warm moist growing conditions when weeds are small. Ensure thorough spray coverage of target weeds and use higher water volumes with dense crop canopy and/or large weeds. Typical symptoms (discoloration) of dying weeds may not be noticeable for 1 to 3 weeks, with control of weeds taking 3-4 weeks after application depending upon growing conditions. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur. Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease, or insect damage following application may also result in crop injury. Product will degrade if left in the sprayer for more than 24 hours.

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PULSE CROP BROAD SPEC HERBICIDE

VIKING™ BENTAZON

Herbicide



Ferocious™, safe and effective control of lamb's-quarters, stinkweed and volunteer canola plus control or suppression of 26 additional broadleaf weeds in peas, beans, soybeans, an alternative mode of action, a wide window of application, and no recropping restrictions in peas, beans, soybeans, fababeans and many other crops.

GROUP 6

REPLACES: Basagran®

REGISTERED CROPS AND USES

- Dry beans
- Field peas
- Fababeans
- Soybeans
- See product label for complete list of registered crops.

WEEDS CONTROLLED

- Bird rape
- Buttercup
- Canada thistle[2]
- Cleavers (1-3 whorl)
- Cocklebur
- Common chickweed
- Common groundsel[3]
- Common ragweed[3]
- Corn spurry
- Field bindweed[2,4,5]
- Flower-of-an-hour
- Giant ragweed
- Hairy galinsoga
- Hairy nightshade
- Jimsonweed
- Lady's-thumb
- Lamb's-quarters[3]
- Low cudweed
- Purslane
- Redroot pigweed[3,4]
- Russian thistle[4]
- Shepherd's purse
- Stinkweed
- Stork's-bill
- Velvetleaf[6]
- Volunteer canola[7]
- Wild mustard
- Wild radish
- Yellow Nutsedge[2]

[1] See label for weed specific application rates and timing.
[2] For perennial weeds, repeat application of **VIKING Bentazon Herbicide** 7 to 15 days after first if needed.
[3] Includes triazine-resistant biotypes.
[4] Suppression
[5] Treat before it is dark green and has begun to trail.
[6] Will defoliate 4 leaf and larger but regrowth may occur.
[7] Only provides control in field peas up to 4 leaf at 404 mL/acre.

NOTE: Weed control with VIKING Bentazon Herbicide is crop, weed and rate specific, and different additives or surfactants will be required depending on the crop and tank mix partner. Please read the product label for specific recommendations.

ACTIVE INGREDIENT

- Bentazon 480 g/L solution

APPLICATION RATE AND ACRES TREATED

- **Low rate:** 710 mL/acre
- **High rate:** 910 mL/acre
- **Acres Treated:**
  Case: 16-20 acres
- **Weed control is rate dependent.** See product label for weed specific application rates.

PACKAGE SIZE

- **Case:** 2 x 7.25 L jugs
- **Bulk:** 348 L tote

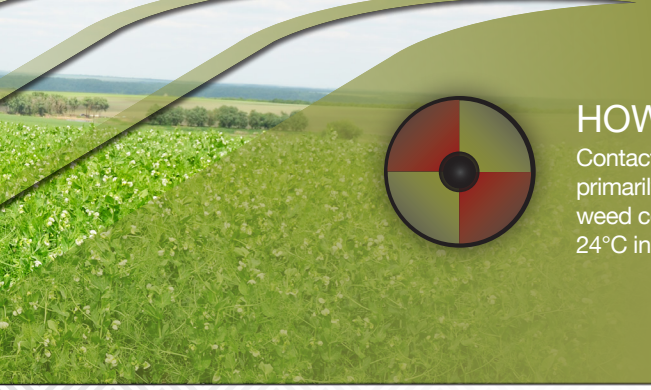
WATER VOLUME

- 10-40 US gallons/acre. See label for required water volume by crop.
- Surfactant
- ASSSIST OR XA Oil Concentrate at 0.4 – 0.8 L/acre
- Soybeans require UAN – see label for information.
- Dry beans require AMS – see label for information.
- See label for complete list of adjuvants and rates by crop.

RAINFAST

- 6 hours

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HOW VIKING BENTAZON WORKS:

Contact herbicide that interferes with photosynthesis. Uptake into the plant occurs primarily through the leaves. Thorough coverage of the leaves is essential for consistent weed control. Best results will be achieved when product is applied between 12°C C and 24°C in warm moist growing conditions when weeds are actively growing.

CROP STAGING

- **Crop stage:**
- **Dry beans**: after the first trifoliate
- **Fababean**: at least 10 cm tall or after 2-3 leaf stage
- **Peas**: 3 node to flowering
- **Soybeans**: all stages
- See product label for complete list of application timing by crop.

CROP ROTATIONS

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Quizalofop Herbicide** (Pinto, Pink Great Northern and Small red Beans in western Canada only), Pinnacle® (soybeans only), Reflex® (dry beans only)

GRAZING RESTRICTIONS

- Do not grazed treated fields as there is there is no data to support this use.

PREHARVEST INTERVAL

- Do not cut treated forage for silage or hay as there is no data to support this use.

STORAGE

- Store this product away from food or feed. Do not ship or store near food, feed, seed and fertilizers. Freezing will not harm product – if frozen warm to room temperature and shake well before using.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. If required add correct amount of nitrogen source. (soybeans only).
3. If required add the correct amount of Pinnacle[1] (soybeans only) or Reflex (dry common beans only).
4. If required add the correct amount of other tank mix partners.
5. Add the required amount of **VIKING Bentazon Herbicide**.
6. Add the required amount of surfactant.
7. Add the remainder of water and apply.

[1] On repeat tank loads, prepare a Pinnacle/water slurry in a separate container with clean water before adding to spray tank.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when product is applied between 12°C C and 24°C in warm moist growing conditions when weeds are actively growing. Application when temperatures are below 5° or above 29° C will reduce optimum herbicide performance. Thorough coverage is critical for performance - use a minimum of 10 gallons/acre of water. Poor results can be expected if weeds are past the 4 leaf stage, spray coverage is poor, or a lower than recommended rate is used. Drought, crop stress, and cold, hot or extremely variable temperatures will also negatively affect performance. Do not apply **VIKING Bentazon Herbicide** to crops that have been subjected to stress from conditions such as hail damage, flooding, drought, hot, humid weather, widely fluctuating temperature conditions, prolonged cold conditions or injury from prior herbicide applications as poor results and/or crop damage may result. Occasionally transient crop yellowing, speckling or bronzing may be observed after application, but this is temporary and will be outgrown by the crop.

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CEREAL BROADLEAF HERBICIDE

VIKING™ BODO

Herbicide



Ferocious™, powerful control of cleavers (including Group 2 resistant biotypes) hemp-nettle, redroot pigweed, smartweed, and volunteer canola plus 2 modes of action, a wide window of application, excellent crop safety, and multiple tank mix options in spring wheat, durum wheat, barley and oats.

GROUP 2 AND 4

REPLACES: Steel®

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Barley
- Oats

WEEDS CONTROLLED

(with the addition of 250 mL/acre of MPCA Ester):

- Annual Sunflower[1]
- Burdock[1]
- Chickweed
- Cleavers[1]
- Cocklebur[1]
- Flixweed[1]
- Hemp-nettle[1]
- Kochia[2]
- Lamb's-quarters[1]
- Plantain[1]
- Prickly lettuce[1]
- Ragweed[1]
- Redroot Pigweed[1]
- Russian Pigweed[1]
- Shepherd's-purse[1]
- Smartweed[1]
- Stinkweed[1]
- Stork's-bill[3]
- Vetch[1]
- Volunteer canola[1]
- Wild buckwheat
- Wild mustard[1]
- Wild radish[1]

[1] Requires the addition of 240 mL/acre MCPA Ester 600.
[2] Including Group 2 resistant biotypes.
[3] Suppression

ACTIVE INGREDIENT

- Florasulam 2.5 g/L + Fluroxypyr 100 g/L suspension (SC)

APPLICATION RATE AND ACRES TREATED

- **Rates**: 400 mL/acre
- **Acres Treated**: 40 acres/case.

PACKAGE SIZE

- **Case:** 2 x 8 L jugs

WATER VOLUME

- 10 US gallons/acre (40 L/acre)

SURFACTANT

- Not required

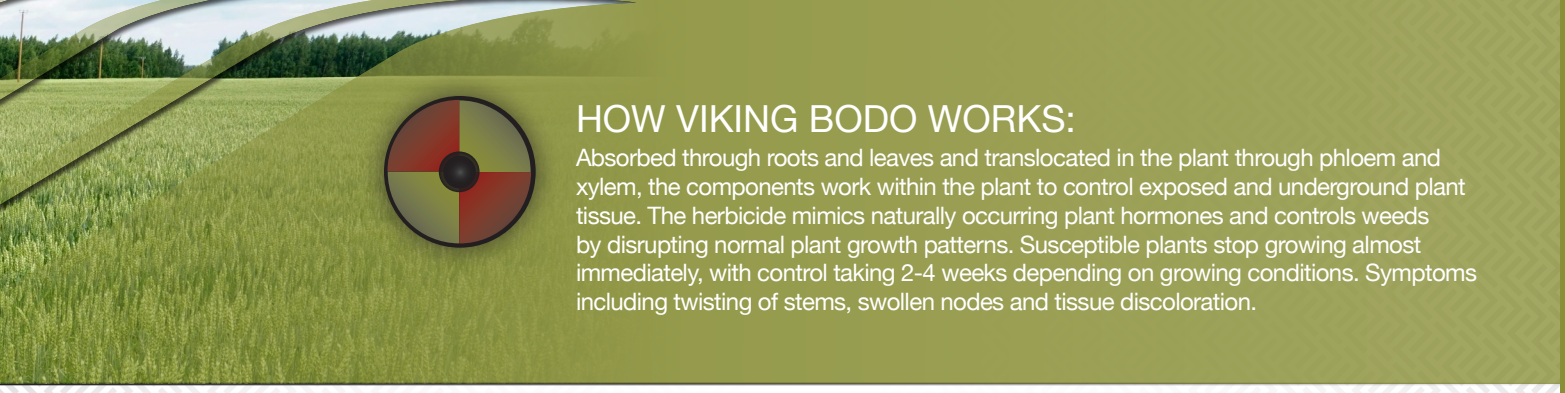
RAINFAST

- 4 hours

Ferocious™ Protection for Canada's Crops.

VIKING

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HOW VIKING BODO WORKS:

Absorbed through roots and leaves and translocated in the plant through phloem and xylem, the components work within the plant to control exposed and underground plant tissue. The herbicide mimics naturally occurring plant hormones and controls weeds by disrupting normal plant growth patterns. Susceptible plants stop growing almost immediately, with control taking 2-4 weeks depending on growing conditions. Symptoms including twisting of stems, swollen nodes and tissue discoloration.

CROP STAGING

- **Crop stage:** 2 leaf - just before flag leaf
- **Weed stage:** 2–4 leaf stage

CROP ROTATIONS

- All major crops can be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Flucarbazone Herbicide, VIKING Pinoxaden 50 Herbicide,** Simplicity™, Traxos®

GRAZING RESTRICTIONS

- Livestock can be grazed on treated areas 7 days after application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.

PREHARVEST INTERVAL

- Allow 7 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application.

STORAGE

- Store this product away from food or feed. Do not freeze. If product is frozen, bring to room temperature and agitate before use.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. If tank mixing, add the required amount of grassy weed control tank mix partner.
3. Add the required amount of **VIKING Bodo Herbicide**.
4. If desired add the required amount of **VIKING MCPA Ester 600 Herbicide.**
5. Add surfactant if required, then complete filling of spray tank, and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur with temperatures between 12°C C and 24°C in warm moist conditions when weeds are small and actively growing. Typical symptoms (twisting of the stems) of dying weeds may not be visible for up to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks. When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8° C or more than 27° C), control can be reduced or delayed since weeds are not actively growing. Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

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CEREAL BROADLEAF HERBICIDE

VIKING™ BREVIK

Herbicide



Ferocious™ proven weed control with a higher rate of fluroxypyr for improved control of cleavers, kochia (including group 2 resistant biotypes), hemp-nettle, wild buckwheat and control or suppression of 24 additional tough-to-kill broadleaf weeds plus two modes of action, outstanding crop safety, a wide window of application and numerous tank mix options in spring wheat, durum wheat and barley.

GROUP 2 AND 4

UNIQUE TO VIKING

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Barley

WEEDS CONTROLLED

- Ball mustard
- Chickweed[1]
- Cleavers
- Common groundsel
- Corn spurry
- Cow cockle
- Flixweed
- Green smartweed
- Hemp-nettle
- Kochia[2]
- Lady's-thumb
- Lamb's quarters
- Narrow-leaved hawk's-beard
- Redroot pigweed
- Russian thistle
- Shepherd's purse
- Stinkweed
- Tartary buckwheat
- Volunteer canola[3]
- Volunteer sunflower
- Wild buckwheat[4]
- Wild mustard

WEEDS SUPRESSED

- Canada thistle[5]
- Round-leaved mallow[6]
- Scentless chamomile
- Sow thistle[5]
- Stork's-bill
- Toadflax[7]

[1] Emerged plants only. Apply when chickweed is small and actively growing and before canopy close.
[2] Including group 2 resistant biotypes.
[3] Not including Clearfield tolerant varieties.
[4] Apply to actively growing wild buckwheat in the cotyledon to 3 leaf stage. Large plants may regrow after treatment.
[5] Apply before the bud stage when thistles are <15 cm in height and when majority of thistles have emerged and are actively growing.
[6] Apply to actively growing mallow from 2-6 leaf stage, plants will be stunted but overall populations may not be reduced.
[7] Apply when weeds are no taller than 15 cm in height. A control program includes both chemical application and tillage.

ACTIVE INGREDIENT

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- Thifensulfuron methyl 50% + Tribenuron methyl 25% wettable granules (SG)

APPLICATION RATE AND ACRES TREATED

- **Rates**: 240 mL/acre **VIKING Fluroxypyr Herbicide** + 8 grams/acre **VIKING Navik Herbicide**
- **Acres Treated**: 80 acres/case.

PACKAGE SIZE

- **Case:** 2 x 9.6 L jug **VIKING Fluroxypyr Herbicide** + 2 X 320-gram bottles **VIKING Navik Herbicide**

WATER VOLUME

- 5-10 US gallons/acre (20-40 L/acre)

SURFACTANT

- Not required if mixed with a wild oat herbicide.
- If used alone, Agral® 90 at 2 L per 1,000 L water

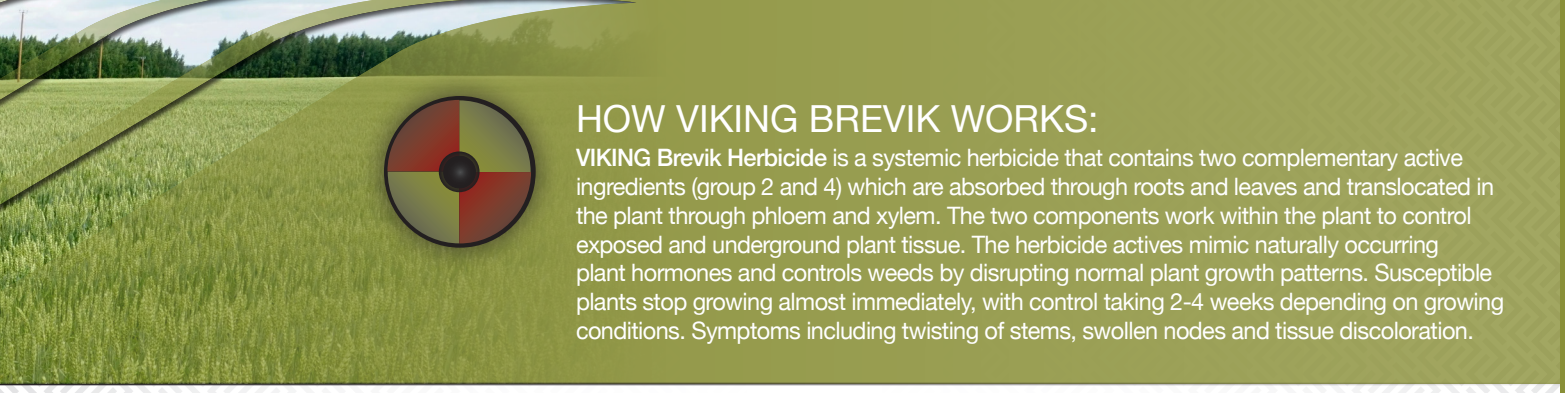
RAINFAST

- 4 hours

Ferocious™ Protection for Canada's Crops.

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HOW VIKING BREVIK WORKS:

VIKING Brevik Herbicide is a systemic herbicide that contains two complementary active ingredients (group 2 and 4) which are absorbed through roots and leaves and translocated in the plant through phloem and xylem. The two components work within the plant to control exposed and underground plant tissue. The herbicide actives mimic naturally occurring plant hormones and controls weeds by disrupting normal plant growth patterns. Susceptible plants stop growing almost immediately, with control taking 2-4 weeks depending on growing conditions. Symptoms including twisting of stems, swollen nodes and tissue discoloration.

CROP STAGING

- **Crop stage:** 2 leaf – flag leaf
- **Weed stage:** Less than 10 cm in height or diameter.

CROP ROTATIONS

- All major crops can be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Clodinafop Herbicide, VIKING Fenoxaprop Herbicide, VIKING Flucarbazone Herbicide, VIKING Pinoxaden 50 Herbicide, VIKING MPCA Ester 600 Herbicide** @190 mL/acre, Simplicity™, Traxos®, Varro®.

GRAZING RESTRICTIONS

- Livestock may be grazed on treated areas 7 days after application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.
- Preharvest Interval
- Allow 7 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application.

STORAGE

- Product may be frozen. Store this product away from other pesticides, food or feed. Store product in original container only. Not for use or storage in or around the home.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required amount of **VIKING Navik Herbicide** and agitate until dissolved.
3. Add the required amount of grass weed control tank mix partner.
4. Add the required amount of **VIKING Fluroxypyr Herbicide.**
5. If desired add the required amount of **Viking MCPA 600 Ester Herbicide**.
6. Add any required surfactants, complete filling of sprayer and apply.
7. If application is stopped prior to completion, resuspend spray solution by full agitation prior to commencing spraying again.
8. Product will degrade if left in the sprayer for more than 24 hours after mixing.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best results will occur with temperatures between 12°C C and 24°C in warm moist conditions when weeds are small and actively growing. Ensure thorough spray coverage of target weeds and use higher water volumes with dense crop canopy and/or large weeds. Typical symptoms (discoloration, twisting of stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take 3 - 4 weeks. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage. When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or greater than 27°C), control can be reduced or delayed since weeds are not actively growing. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result. Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease, or insect damage following application may also result in crop injury.

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THISTLE CONTROL HERBICIDE

VIKING™ CLOPYRALID

Herbicide

Ferocious™, powerful, superior control of Canada thistle, wild buckwheat and other tough-to-kill weeds (high rate) plus a wide window of application, excellent crop safety and multiple tank mix options in canola, cereals, flax and other crops.

GROUP 4

REPLACES: Lontrel™ 360

REGISTERED CROPS AND USES

- Canola
- Spring wheat
- Barley
- Oats
- Flax
- Sugar beets
- Seedling and established forage grasses
- Rangeland and non-crop farmland
- See product label for additional crops and uses.

WEEDS CONTROLLED

170 mL/acre: (105 acres/case)

- Canada thistle (top growth)
- Vetch
- Alsike clover

227 mL/acre (78 acres/case):

- Canada thistle
- Scentless chamomile
- Wild buckwheat
- Perennial sow thistle (top growth)
- Common groundsel
- Volunteer alfalfa
- Common ragweed
- Sheep sorrel[1]
- Ox-eye daisy[1]

340 mL/acre (52 acres/case):

- Previously listed weeds
- Canada thistle (season long control of top growth with a reduction in population the following year)

[1]Suppression

ACTIVE INGREDIENT

- Clopyralid 360 g/L emulsifiable concéntrate (EC)

APPLICATION RATE AND ACRES TREATED

- **Rate:**
  Cereals: 112 mL/acre when mixed with 2,4 D ester or MPCA ester.
  Flax: 112 mL/acre when mixed with MPCA ester.
  Canola: 170-336 mL/acre
  See product label for application rates by crop, weed, and tank mix partner.
- **Acres Treated:**
  Cereals or flax: 160 acres/case when mixed with MCPA or 2,4-D amine or ester
  Canola: 52–105 acres/case

PACKAGE SIZE

- **Case:** 2 X 8.9 L jugs

WATER VOLUME

- 10 US gallons/acre (40 L/acre)

SURFACTANT

- None required

RAINFAST

- 4 hours



HOW VIKING CLOPYRALID WORKS:

Product is absorbed through roots and leaves and translocated in the plant through phloem and xylem and the components work within the plant to control exposed and underground plant tissue. The herbicide mimics naturally occurring plant hormones and controls weeds by disrupting normal plant growth patterns. Affected plants stop growing almost immediately, with control taking 2-4 weeks depending on growing conditions. Symptoms including twisting of stems, swollen nodes and tissue discoloration.

CROP STAGING

- **Crop stage:**
  Spring wheat, barley, oats: 3 leaf to early flag
  Canola: 2 to 6 leaf
  Flax: 2 to 6 inches tall
  Other crops: See product label
- **Weed stage**: Rosette – pre-bud

CROP ROTATIONS

- **1 year after applicatio**n: wheat barley, canola, rye, sugar beets, flax, mustard, oats or summerfallow.
- Do not grow crops other than those listed for at least 2 years.

REGISTERED AND SUPPORTED TANK MIXES*

- **Cereals: VIKING Clodinafop Herbicide, VIKING Fenoxaprop Herbicide, VIKING Flucarbazone Herbicide, VIKING Florasulam Herbicide, VIKING Pinoxaden 50 Herbicide, VIKING 2,4-D Ester 700 Herbicide, VIKING MCPA Ester 600 Herbicide, 2,4-D or MCPA amine**
- RoundupReady® canola: **VIKING 540 Glyphosate Herbicide, VIKING Clethodim Herbicide**
- **Clearfield® canola**: Ares™, Amity™
- **Flax: VIKING Clethodim Herbicide, VIKING MCPA Ester 600 Herbicide**
- See product label for additional tank mix options and use rates.

GRAZING RESTRICTIONS

- Livestock may be grazed on treated areas immediately after application.

PREHARVEST INTERVAL

- Pre-harvest interval is crop specific – see product label for details.

STORAGE

- Store product away from food or feed. Store in heated storage; if product is frozen, bring to room temperature and agitate before use. Keep product from freezing; if stored for 1 year or longer, shake well before using.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. If required add the correct amount of any dry formulation product.
3. If tank mixing, add the required amount of grassy weed control tank mix partner.
4. Add the required amount of **VIKING Clopyralid Herbicide**.
5. Add surfactant if required, then complete filling of spray tank, and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur with temperatures between 12°C C and 24°C in warm moist conditions when weeds are small and actively growing. Thistle control is rate dependent. Higher rates will improve control and the highest rate will extend control into the following year. Applications should be made when Canada thistle, perennial sow-thistle and scentless chamomile are in the rosette to pre-bud stage of growth. Best results are obtained when Canada thistle is actively growing, and soil moisture is adequate for rapid growth. Maintain high water volumes for control of wild buckwheat, especially if it is larger stage. Under dry soil conditions and poor growing conditions, control of Canada thistle and other weeds may be severely reduced. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result. Very dry soil conditions following application can result in a risk of injury to field peas, beans, clover, alfalfa or other legumes grown in rotation. Do not seed lentils on treated fields for at least 2 years.

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CEREAL BROADLEAF HERBICIDE

VIKING™ DRAMMEN

Herbicide

Ferocious™, powerful, outstanding control of Canada thistle, wild buckwheat and 26 other tough-to-kill weeds (high rate) plus a wide window of application, excellent crop safety and multiple tank mix options in wheat, barley, oats and flax.

GROUP 4

REPLACES: Curtail™ M

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Barley
- Oats
- Flax
- Established timothy
- Canary seed
- Do not use on timothy destined for export.

WEEDS CONTROLLED

Low Rate (40 acres/case)

- Canada thistle[1]
- (low infestations)
- Annual sunflower
- Burdock
- Cocklebur
- Field horsetail[2]
- Flixweed[3] (2-4 leaf)
- Lamb's-quarters
- Plantain[2]
- Prickly lettuce
- Ragweed
- Shepherd's-purse[3]
- Stinkweed[3]
- Vetch
- Volunteer sunflower
- Wild mustard
- Wild radish

High Rate (30 acres/case) (includes weeds controlled at the low rate)

- Canada thistle[1] (med-high infestations)
- Common groundsel
- Dandelion[3]
- Kochia[4] (2-4 leaf)
- Redroot pigweed
- Russian pigweed
- Scentless chamomile (2-4 leaf)
- Smartweed
- Sow-thistle (annual)
- Sow-thistle[4] (perennial)
- Tartary buckwheat
- Volunteer canola
- Wild buckwheat

[1] Season-long control with some regrowth in the fall (top growth control)
[2] Top growth control only
[3] Spring rosettes only
[4] Suppression

ACTIVE INGREDIENT

- Clopyralid 50 g/L + MCPA ester 280 g/L emulsifiable concéntrate (EC)

APPLICATION RATE AND ACRES TREATED

- **Rates**:
- **Low**: 600 mL/acre
- **High**: 800 mL/acre
- **Acres Treated**: 30-40 acres/case.

PACKAGE SIZE

- **Case:** 2 X 12 L jugs
- **Bulk**: 96 L, 576 L

WATER VOLUME

- 10 -15 US gallons/acre (40 - 60 L/acre)

SURFACTANT

- Not required

RAINFAST

- 4 hours

HOW VIKING DRAMMEN WORKS:

Product is absorbed through roots and leaves and translocated in the plant through phloem and xylem and the components work within the plant to control exposed and underground plant tissue. The herbicide mimics naturally occurring plant hormones and controls weeds by disrupting normal plant growth patterns. Affected plants stop growing almost immediately, with control taking 2-4 weeks depending on growing conditions Symptoms including twisting of stems, swollen nodes and tissue discoloration.

CROP STAGING

- **Crop stage:**
- **Cereals:** 3 leaf to just before flag leaf
- **Flax:** 2 to 6 inches tall
- **Timothy, Canary seed:** 3 leaf to just before flag leaf emergence
- **Weed stage:** 1–4 leaf stage, and when Canada thistle is between 10 cm and early bud stage

CROP ROTATIONS

- 1 year after application: wheat barley, canola, rye, sugar beets, flax, mustard, oats, peas† or summerfallow.
- Do not grow crops other than those listed for at least 2 years.

† For pea rotation, rainfall from June 1 to August 31 in the year of application must be greater than 140 mm (5.5. inches) and annual rainfall must be greater than 175 mm (6.9 inches).

REGISTERED AND SUPPORTED TANK MIXES*

- **Cereals: VIKING Clodinafop Herbicide, VIKING Fenoxaprop Herbicide, VIKING Flucarbazone Herbicide, VIKING Pinoxaden 50 Herbicide, Viking Risor Herbicide,** Liquid Achieve™, Simplicity™, Traxos®
- **Flax: Viking Clethodim Herbicide**

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

GRAZING RESTRICTIONS

- Livestock may be grazed on treated areas 7 days after application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.

PREHARVEST INTERVAL

- Allow 7 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application.

STORAGE

- Store this product away from food or feed. Do not freeze. If product is frozen, bring to room temperature and agitate before use.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. If required add the correct amount of any dry formulation product.
3. If tank mixing, add the required amount of grassy weed control tank mix partner.
4. Add the required amount of **VIKING Drammen Herbicide.**
5. Add surfactant if required, then complete filling of spray tank, and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur with temperatures between 12°C C and 24°C in warm moist conditions when weeds are small and actively growing. Optimum thistle control will occur when thistles are in the rosette to pre-bud stage. Thistles that are not emerged or are already in the bud stage will not be controlled. Use higher rate and higher water volumes with heavier weed pressure, larger weeds and thicker crop canopy. Typical symptoms (twisting of the stems) of dying weeds may not be visible for up to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks. When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or more than 27° C), control can be reduced or delayed since weeds are not actively growing. Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result. Very dry soil conditions following application can result in a risk of injury to field peas, beans, clover, alfalfa or other legumes grown in rotation. Do not seed lentils on treated fields for at least 2 years.

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THISTLE CONTROL HERBICIDE

VIKING™ FALUN

Herbicide



Ferocious™, outstanding control or suppression of wild oats, green smartweed, redroot pigweed, stinkweed, wild mustard and 17 additional tough to kill grass and broadleaf weeds, plus 2 modes of action and improved rotational crop flexibility as compared to other pulse crop herbicides.

GROUP 1 AND 2

UNIQUE TO VIKING

REGISTERED CROPS AND USES

- Field peas
- Clearfield® Lentils

WEEDS CONTROLLED

Broadleaf Weeds

- Cow cockle
- Green smartweed
- Lamb's-quarters[2]
- Redroot pigweed
- Russian thistle
- Shepherd's purse
- Stinkweed
- Volunteer canola (only non-Clearfield® varieties)
- Wild mustard

Grass Weeds

- Barnyard grass
- Green foxtail
- Fall panicum
- Proso millet
- Volunteer cereals
- Volunteer corn
- Volunteer canary grass
- Wild oats
- Witchgrass
- Yellow foxtail

WEEDS SUPRESSED

- Cleavers
- Japanese brome grass
- Round-leaved mallow
- Wild buckwheat
- Quackgrass

ACTIVE INGREDIENT

- Clethodim 240 g/L emulsifiable concentrate
- Imazamox 70% wettable granule (WG)

APPLICATION RATE AND ACRES TREATED

- **Application rate**: 50 mL/acre **VIKING Clethodim Herbicide** + 11.7 grams/acre **VIKING Imazamox Herbicide**
- **Acres treated**: 160 acres/case..

PACKAGE SIZE

- 8 L **VIKING Clethodim Herbicide** + 4 x 470 g packages **VIKING Imazamox Herbicide**

WATER VOLUME

- 10 US gallons/acre (40 L/acre)

SURFACTANT

- **VIKING PHC Adjuvant** at 5 L per 1,000 L of water

RAINFAST

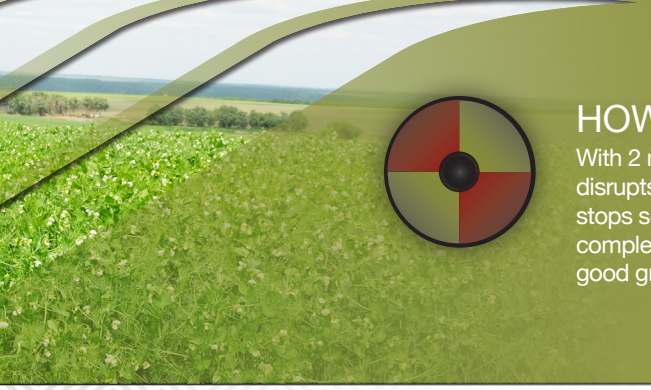
- 3 hours

[1] At 11.7 gram/acre rate
[2] 85% control only. Fields with heavy infestations or poor growing conditions at time of application will see weed escapes.

Ferocious™ Protection for Canada's Crops.

VIKING

vikingcropproduction.com



HOW VIKING FALUN WORKS:

With 2 modes of action (group 1 and 2), product is absorbed by foliage and roots and disrupts plant metabolism which causes growth to stop. Growth of susceptible plants stops soon after application, symptoms include discoloration (yellowing, browning), with complete control taking up to 2-4 weeks. Thorough coverage of susceptible weeds and good growing conditions are required for optimum control.

CROP STAGING

- **Crop stage**:
  Field pea: 1-6 leaf stage
  Clearfield lentil: 2-6 leaf stage
- **Weed stage**:
  Broadleaf weeds: up to and including 4 leaf stage.
  Grass weeds: 2- 4 leaf stage.

CROP ROTATIONS

- **1 year after application**: Field peas, canola°, spring wheat, durum wheat, barley, tame oats, flax, Clearfield® sunflowers**
- There is insufficient data for other crops. Conduct a field bioassay the year before growing any crop other than those listed above.

° Initial injury to non-Clearfield® canola may be observed.
**Sunflower varieties with the Clearfield® trait

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Bentazon Herbicide**

GRAZING RESTRICTIONS

- Treated fields may be cut for feed or grazed 60 days after application.

PREHARVEST INTERVAL

- Field pea: Mature crop may be harvested 75 days after application.
- Clearfield lentil: Mature crop may be harvested 60 days after application.

STORAGE

- Store this product away from food or feed. Keep from freezing. Keep unused water-soluble bags in resealed original container, and keep packages dry at all times.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and start agitation.
2. Add the required amount of **VIKING Imazamox Herbicide** and agitate until product is fully dissolved.
3. If required, add the correct amount of any tank mix partners.
4. If required, add correct amount **VIKING Clethodim Herbicide.**
5. Add the required amount of **VIKING PHC Adjuvant**.
6. Fill the remainder of the tank with water and apply.
7. If application is paused prior to completion, agitate and resuspend spray solution prior to re-commencing spraying.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when applied between 12°C and 24°C during warm moist growing conditions when weeds are small and actively growing. Typical symptoms (discoloration at the growing point) may not be noticeable for several days to 2 weeks depending on growing conditions. For optimum control weeds must be emerged but less than 4 leaf stage for optimum control. Use higher water volumes for dense weed populations and thick crop canopies. Do not apply if temperatures of +5°C or lower are forecast within 3 days of application. Application just before or after cold temperatures can result in crop injury or reduced weed control. Control will be reduced, or crop injury may occur if plants are stressed by lack of moisture, excessive moisture, poor fertility, cold temperatures or other crop stress factors. **VIKING Falun Herbicide** can be persistent in soil. Drought, extremes in soil pH and excessive cold may result in an increased potential for injury to succeeding crops.

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PULSE CROP BROAD SPEC HERBICIDE

VIKING™ FLORO

Herbicide



Ferocious™, powerful, proven control or suppression of wild oats, grass weeds and 15 broadleaf weeds including redroot pigweed, stinkweed, volunteer canola and wild mustard in field peas.

GROUP 1 AND 2

UNIQUE TO VIKING

REGISTERED CROPS AND USES

- Field peas

WEEDS CONTROLLED

[2] Not including Clearfield® varieties.

Broadleaf weeds

- Chickweed
- Cleavers
- Flixweed
- Green smartweed
- Redroot pigweed
- Shepherd's purse
- Stinkweed
- Stork's bill
- Volunteer canola (non-Clearfield® canola only)
- Volunteer tame mustard
- Wild mustard

Grass weeds

- Barnyard grass
- Green foxtail
- Persian darnel
- Volunteer barley
- Volunteer tame oats
- Volunteer wheat
- Wild oats
- Yellow foxtail

WEEDS SUPRESSED

- Hemp-nettle
- Kochia
- Lamb's-quarters
- Wild buckwheat

ACTIVE INGREDIENT

- Clethodim 240 g/L emulsifiable concentrate (EC)
- Imazamox 35% + Imazethapyr 35% water dispersible granules (WDG)

APPLICATION RATE AND ACRES TREATED

- **Application rate**: 50 mL/acre **VIKING Clethodim Herbicide** + 17.2 grams/acre **VIKING Skien Herbicide**
- **Acres treated**: 160 acres/case.

PACKAGE SIZE

- **Case**: 8 L **VIKING Clethodim Herbicide** + 4 X 692 gram boxes (16 x 86.5 g water-soluble bags) **VIKING Skien Herbicide**

WATER VOLUME

- 10 US gallons/acre (40 L/acre)

SURFACTANT

- **VIKING PHC Adjuvant** at 5 L per 1,000 L of water.

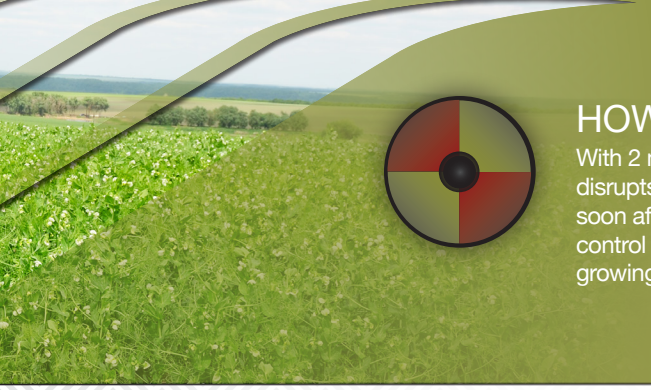
RAINFAST

- 3 hours

Ferocious™ Protection for Canada's Crops.

VIKING

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HOW VIKING FLORO WORKS:

With 2 modes of action (group 1 and 2), product is absorbed by foliage and roots and disrupts plant metabolism which causes growth to stop. Growth of susceptible plants stops soon after application, symptoms include discoloration (yellowing, browning), with complete control taking up to 2-4 weeks. Thorough coverage of susceptible weeds and good growing conditions are required for optimum control.

CROP STAGING

- **Crop stage**: 1 to 6 true leaf stage.
- **Weed stage**:
  Broadleaf weeds: Up to the 4 leaf stage.
  Grass weeds: 2- 4 leaf stage.

CROP ROTATIONS

- 1 year after application: Barley, chickpeas, Clearfield® canola, Clearfield® lentils, durum wheat, field peas, spring wheat, tame oats.
- Conduct a field bioassay the year before growing any crop other than those listed above.
- Refer to label for area specific re-cropping restrictions.

REGISTERED AND SUPPORTED TANK MIXES*

- None

GRAZING RESTRICTIONS

- Treated fields may be cut for forage or fed to livestock 60 days after application.

PREHARVEST INTERVAL

- Mature crop may be harvested 75 days after application.

STORAGE

- Store this product away from food or feed. Keep from freezing. Keep unused water-soluble bags in resealed original container, and keep packages dry at all times.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Use 50 mesh or coarser filter screens.
2. Fill the spray tank 1/2 full of clean water and start agitation.
3. Add the required amount of **VIKING Skien Herbicide** and agitate until product is fully dissolved.
4. Add the required amount of **VIKING Clethodim Herbicide**.
5. Add the required amount of **VIKING PHC Adjuvant**.
6. Fill the remainder of the tank with water and apply.
7. If application is paused prior to completion, agitate and resuspend spray solution prior to re-commencing spraying.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when applied between 12°C and 24°C during warm moist growing conditions when weeds are small and actively growing. Typical symptoms (discoloration at the growing point) may not be noticeable for several days to 2 weeks depending on growing conditions. For optimum control weeds must be emerged but less than 4 leaf stage for optimum control. Use higher water volumes for dense weed populations and thick crop canopies. Do not apply if temperatures of +5°C or lower are forecast within 3 days of application. Application just before or after cold temperatures can result in crop injury or reduced weed control. Control will be reduced, or crop injury may occur if plants are stressed by lack of moisture, excessive moisture, poor fertility, cold temperatures or other crop stress factors. **VIKING Floro Herbicide** can be persistent in soil. Drought, extremes in soil pH and excessive cold may result in an increased potential for injury to succeeding crops. Do not grow LibertyLink® or Roundup Ready® canola the year after application of VIKING Floro Herbicide. Do not apply **VIKING Floro Herbicide** more than once per year.

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GLUFOSINATE TOLERANT CANOLA HERBICIDE

VIKING™ GLUFOSINATE 150

Herbicide



Ferocious™, affordable broad-spectrum control of grass and broadleaf weeds in Glufosinate ammonium tolerant canola.

GROUP 10

REPLACES: Liberty®

REGISTERED CROPS AND USES

- Glufosinate ammonium tolerant canola

WEEDS CONTROLLED

(1.35 L/acre rate)

Barnyard grass	(1 to 4 leaf)
Canada thistle	(suppression up to 10 cm tall)
Cleavers[2]	(1 to 2 whorls)
Common chickweed	(1 to 4 leaf pairs)
Cow Cockle	(1 to 4 leaf)
Dandelion	(1 to 15 cm rosette)
Flixweed	(up to 10 cm tall)
Green foxtail	(1 to 6 leaf, max. 3 tillers)
Hemp-nettle	(1 to 4 leaf pairs)
Kochia	(up to 8 cm tall)
Lady's-thumb	(1 to 6 leaf)
Lamb's-quarters	(1 to 6 leaf)
Perennial sow thistle	(1 to 8 leaf)
Quackgrass	(suppression - 1 to 4 leaf)
Redroot pigweed	(1 to 4 leaf)
Round-leaved mallow	(1 to 4 leaf)
Russian thistle	(up to 8 cm tall)
Scentless chamomile	(up to 10 cm tall)
Shepherd's-purse	(1 to 6 leaf)
Smartweed	(1 to 6 leaf)
Stinkweed	(1 to 8 leaf)
Stork's-bill	(1 to 3 leaf)
Volunteer barley[1]	(1 to 4 leaf, max. 2 tillers)
Volunteer flax	(up to 6 cm tall)
Volunteer wheat	(1 to 4 leaf, max. 2 tillers)
Wild buckwheat	(1 to 3 leaf)
Wild oats	(1 to 4 leaf, max. 2 tillers)
Wild mustard	(1 to 5 leaf)

ACTIVE INGREDIENT

- Glufosinate-ammonium 150 g/L SN

APPLICATION RATE

- See product label for application rates.

PACKAGE SIZE AND ACRES TREATED

(at 1.35 L/acre application rate)

- **Case**:
  2x13.5 L case treats 20 acres
- **Bulk**:
  1x108 L drum treats 80 acres.
  1x500 L Tote treats 370 acres.
  1x1000 L Tote treats 740 acres.

WATER VOLUME

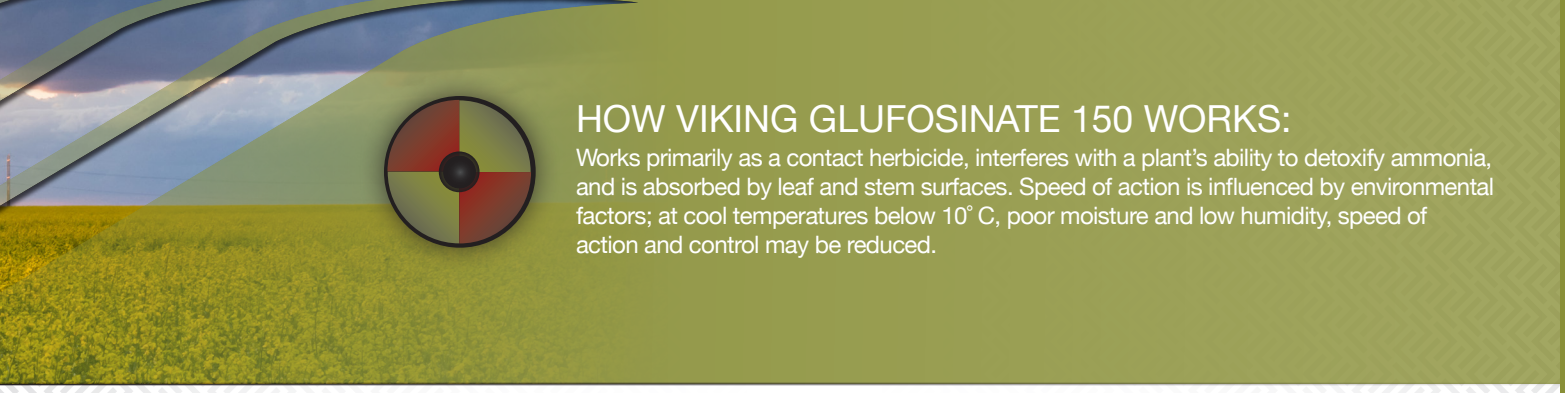
- **Ground**: Minimum 10 US gallons/acre (40 L/acre)
- **Aerial**: 5 US gallons/acre (20 L/acre)

SURFACTANT

- Not required if used alone.

RAINFAST

- 1 hour



HOW VIKING GLUFOSINATE 150 WORKS:

Works primarily as a contact herbicide, interferes with a plant's ability to detoxify ammonia, and is absorbed by leaf and stem surfaces. Speed of action is influenced by environmental factors; at cool temperatures below 10˚ C, poor moisture and low humidity, speed of action and control may be reduced.

CROP STAGING

- **Crop stage**: Cotyledon up to, but prior to bolting
- **Weed stage**: See Weeds Controlled section.

CROP ROTATIONS

- All major crops can be grown the year after application

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Clethodim Herbicide**

GRAZING RESTRICTIONS

- All portions of treated crops may be fed to livestock

PREHARVEST INTERVAL

- No preharvest interval is indicated.

STORAGE

- Should not be frozen. If stored for one year or longer, shake well before using.
- Keep away from feeds, seeds, fertilizers, plants and foodstuffs

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and start agitation.
2. If tank mixing with **VIKING Clethodim Herbicide**, add the required rate of **VIKING Phosphate Ester Adjuvant.**
3. Add the required amount of **VIKING Glufosinate 150 Herbicide**.
4. If required, add the correct amount of **VIKING Clethodim Herbicide**.
5. Add the remaining amount of water and spray out immediately.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.
7. Always clean out spray tank thoroughly before applying other products.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when applied between 15°C and 27°C in warm, moist, sunny growing conditions when weeds are small and actively growing. Control may be reduced when if applied on a cloudy day or at temperatures below 10°C or when environmental conditions are cool and dry. **VIKING Glufosinate 150 Herbicide** is a contact herbicide and requires water volume of at least 10 gal/acre for adequate coverage. Avoid fine droplet sizes as the potential for spray drift increases significantly. Where a rate range is given, the higher rate should be used when weed or crop growth is dense, when weeds are larger or more mature, or when environmental conditions are cool and dry. Typical symptoms (discoloration, bleaching effect) of dying weeds are usually noticeable within 7 days of application, depending on growing conditions. Control of weeds may take 7-14 days; regrowth may occur under warm moist conditions suitable for weed growth and if crop canopy is poor. A second application may be necessary if weed growth resumes after first application and before canopy close. Do not apply more than 2.97 L/ac total in one year.

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CEREAL BROADLEAF HERBICIDE

VIKING™ HAMAR

Herbicide

Ferocious™, proven, trusted control of wild buckwheat, volunteer canola and control or suppression of 28 additional annual and perennial broadleaf weeds, plus 2 modes of action, no re-cropping restrictions, excellent crop safety and a wide window of application for use in wheat, barley oats and many different crops.

GROUP 4

REPLACES: Buctril® M

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Winter wheat
- Barley
- Oats
- Flax (including Low Linolenic Acid Varieties)
- Corn (field, sweet),
- Fall rye
- Canary seed
- Seedling grasses, established grasses, perennial cereal rye.

WEEDS CONTROLLED

Seedling to 4-leaf stage

- American nightshade
- Ball mustard
- Bluebur
- Cocklebur
- Cow cockle[1]
- Flixweed
- Green smartweed
- Kochia[2]
- Lady's-thumb
- Night flowering catchfly
- Pale smartweed
- Redroot pigweed
- Russian thistle[2]
- Scentless chamomile[3]
- Shepherd's-purse
- Velvetleaf[4]
- Volunteer canola
- Volunteer sunflower

Seedling 6-leaf stage

- Wild tomato

Seedling to 8-leaf stage

- Common buckwheat
- Common groundsel
- Common ragweed
- Lamb's-quarters
- Stinkweed
- Tartary buckwheat
- Wild buckwheat
- Wild mustard
- Wormseed mustard

Top Growth Control

- Canada thistle
- Perennial sow-thistle

[1] In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.
[2] Spray before plants are 5 cm high.
[3] Spring annuals only.
[4] Spray before plants are 8 cm high.

ACTIVE INGREDIENT

- Bromoxynil 280 g/L + MCPA Ester 280 g/L emulifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED

- **Application rate**: 400 mL/acre.
- **Acres treated**: 2 X 8 L case treats 40 acres.

PACKAGE SIZE

- **Case**: 2 X 8 L jugs
- **Tote**: 500 L

WATER VOLUME

- **Ground**: Minimum 5 US gallons/acre (20 L/acre) in all crops except corn and seedling grasses.
  Corn: 20-30 US gallons/acre. (80-120 L/acre)
  Seedling grasses: minimum US 15 gallons/acre. (60 L/acre).
- **Aerial*** (Wheat, barley, oats only): Minimum 3 US gallons/acre (12 L/acre). Use higher rates in heavier crop canopy.

*see label for specific tank mix aerial application restrictions.

SURFACTANT

- None required.

RAINFAST

- Minimum 1 hour
- Avoid application when heavy rain is forecast.

Ferocious™ Protection for Canada's Crops.

VIKING

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HOW VIKING HAMAR WORKS:

This product contains two active ingredients, a contact herbicide and systemic herbicide. The bromoxynil active is a contact type herbicide and inhibits photosynthesis and plant respiration. The MCPA active is absorbed through leaves and is readily translocated in the plant with speed of control dependent on application and growing conditions. Weeds stop growing shortly after application, with small burnt spots appearing on the leaf can within hours; death takes up to 2 weeks. Good spray coverage is essential. Poor results may be expected if there is poor coverage or poor penetration through a dense crop canopy.

CROP STAGING

- **Crop Stage:**
  Spring wheat, durum wheat, barley: 2 leaf to early flag leaf
  Winter wheat: 2 to 4 leaf stage in the fall, emergence to early flag leaf in the spring
  Flax: 2 to 4 inches tall
  Corn: 4 to 6 leaf
  Canary seed: 3 to 5 leaf
  Seedling grasses: 2 to 4 leaf
  Established grasses: (timothy only): Prior to shot blade in seed production year
- Weed stage: See “weeds controlled” section

CROP ROTATIONS:

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*:

- **Spring wheat: VIKING Clodinafop Herbicide, VIKING Fenoxoprop Herbicide, VIKING Flucarbazone Herbicide, VIKING Pinoxaden Herbicide, VIKING Navik Herbicide**, Simplicity™
- **Flax only: VIKING Clethodim Herbicide**

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

GRAZING RESTRICTIONS:

- Harvest forage or cut hay 30 days after application.
- Graze fields 30 days after application.

PREHARVEST INTERVAL:

- Mature crop may be harvested 30 days after application.

STORAGE:

- Store this product away from food or feed. Product may be frozen; if product becomes frozen, gently warm contents and agitate container before use.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and start agitation.
2. If required, add the correct amount of any dry formulation products.
3. If required, add the correct amount of grassy weed tank mix partner.
4. Add the required amount of **VIKING Hamar Herbicide**.
5. Add any required surfactant.
6. Complete filling of sprayer and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best results will occur when applied with temperatures between 15°C and 27°C in warm moist conditions when weeds are in the seedling stage. Good spray coverage is essential - use higher water volumes in heavy crop canopy or weed pressure. Typical symptoms of dying weeds will be visible from several hours to several days after application depending on growing conditions. Control of weeds may take up to 2-3 weeks. Avoid spraying in severe drought. Do not spray flax in hot humid weather when daytime temperatures are over 25° C. Weed control may be reduced during stress conditions, e.g. drought, excessive moisture, heat or cold stress, if weeds have initiated flowering, or if heavy infestations exist.

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CEREAL BROADLEAF HERBICIDE

VIKING™ HARSTAD

Herbicide

Ferocious™, powerful, superior performance with the highest registered rates of florasulam and fluroxypyr for broad-spectrum control of cleavers, kochia (including Group 2 resistant biotypes), chickweed, wild buckwheat, plus control or suppression of 34+ broadleaf weeds with addition of MCPA Ester 600, excellent crop safety and a wide window of application in spring wheat, durum wheat, and barley.

GROUP 2 & 4

UNIQUE TO VIKING

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Barley

WEEDS CONTROLLED

(with the addition of 250 mL/acre of MPCA Ester 600)

- Annual sunflower[1]
- Ball mustard
- Burdock[1]
- Chickweed
- Cleavers (1-4 whorl)
- Cocklebur
- Common ragweed
- Cow cockle
- Flixweed (spring rosettes only)
- Hemp-nettle[3]
- Kochia (2-8 leaf)[2]
- Lamb's-quarters
- Prickly lettuce[1]
- Redroot pigweed[3]
- Round-leaved mallow (1-6 leaf)
- Russian pigweed[1]
- Shepherd's-purse
- Smartweed
- Stinkweed
- Vetch
- Volunteer canola
- Volunteer flax (1-12 cm)
- Wild buckwheat
- Wild mustard
- Wild radish

WEEDS SUPRESSED

(with the addition of 250 mL/acre of MPCA Ester 600)

- Annual sow thistle
- Canada thistle
- Dandelion (seedlings and overwintered rosettes <15 cm)
- Narrow-leaved hawk's-beard
- Perennial sow thistle
- Plantain (top growth only)
- Stork's bill (1-8 leaf)[3]

[1] Up to 4 leaf
[2] Including Group 2 resistant biotypes.
[3] Optimum control with an additional 30 mL/ac MCPA Ester 600

ACTIVE INGREDIENTS

- Florasulam 50 g/L suspension concentrate (SC)
- Fluroxypyr 180 g/L emulsifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED

- **Rates: VIKING Florasulam Herbicide** 40 mL/acre + **VIKING Fluroxypyr Herbicide 320 mL/acre**
- **Acres Treated:**
  Case: 80 acres/case
  Bulk: 720 acres

PACKAGE SIZE:

- **Case**: 1 X 3.2 L jug **VIKING Florasulam Herbicide** + 2 X 12.8 L jug **VIKING Fluroxypyr Herbicide**
- **Bulk**: (9 x 3.2 L jug) **VIKING Florasulam Herbicide** + 230 L tote **VIKING Fluroxypyr Herbicide**

WATER VOLUME

- 10 US gallons/acre (40 L/acre)

SURFACTANT

- Not required

RAINFAST

- 4 hours

Ferocious™ Protection for Canada's Crops.

VIKING

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HOW VIKING HARSTAD WORKS:

VIKING Harstad Herbicide contains two complementary active ingredients (group 2 and 4) which are absorbed through roots and leaves and translocated in the plant through phloem and xylem. The two components work within the plant to control exposed and underground plant tissue. The herbicide actives mimic naturally occurring plant hormones and controls weeds by disrupting normal plant growth patterns. Susceptible plants stop growing almost immediately, with control taking 2-4 weeks depending on growing conditions. Symptoms including twisting of stems, swollen nodes and tissue discoloration.

CROP STAGING

- **Crop stage**: 2 leaf - just before flag leaf
- **Weed stage**: 2 - 4 leaf.

CROP ROTATIONS:

- All major crops can be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*:

- **VIKING Pinoxaden 50 Herbicide, VIKING Flucarbazone Herbicide**, Simplicity™, Traxos®

GRAZING RESTRICTIONS:

- Livestock can be grazed on treated areas 7 days after application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.

PREHARVEST INTERVAL:

- Allow 7 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application.

STORAGE:

- Store this product away from food or feed. Do not freeze. If product is frozen, bring to room temperature and agitate before use.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. If tank mixing granular products, add the required amount of granular tank mix partner.
3. Add the required amount of **VIKING Florasulam Herbicide**.
4. If tank mixing, add the required amount of liquid grassy weed control tank mix partner.
5. Add the required amount of **VIKING Fluroxypyr Herbicide.**
6. If desired add the required amount of **VIKING MCPA Ester 600 Herbicide.**
7. Add surfactant if required, then complete filling of spray tank, and apply.
8. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur with temperatures between 12°C C and 24°C in warm moist conditions when weeds are small and actively growing. Typical symptoms (twisting of the stems, inhibition of growing point, discoloration) of dying weeds may not be visible for up to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks. When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or more than 27° C), control can be reduced or delayed since weeds are not actively growing. Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

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PULSE CROP BROAD SPEC HERBICIDE

VIKING™ IMAZAMOX

Herbicide



Ferocious™, outstanding control or suppression of green smartweed, redroot pigweed, stinkweed, and wild mustard plus 16 tough to kill grass and broadleaf weeds, numerous tank mix options and improved rotational crop flexibility as compared to other pulse crop herbicides.

GROUP 2

REPLACES: Solo®

REGISTERED CROPS AND USES

- Field peas
- Clearfield® Lentils

WEEDS CONTROLLED[1]

(up to 4 leaf stage)

- Barnyard grass
- Cow cockle
- Green foxtail
- Green smartweed
- Lamb's-quarters[2]
- Redroot pigweed
- Russian thistle
- Shepherd's purse
- Stinkweed
- Volunteer barley
- Volunteer canola[3]
- Volunteer durum wheat
- Volunteer spring wheat[3]
- Volunteer tame oats
- Wild mustard[3]
- Wild oats[3]

WEEDS SUPRESSED

- Cleavers
- Japanese brome grass
- Round-leaved mallow
- Wild buckwheat

[1] At 11.7 gram/acre rate
[2] 85% control only. Fields with heavy infestations or poor growing conditions at time of application will see weed escapes.
[3] Not including Clearfield® varieties.

ACTIVE INGREDIENT

- Imazamox 70% wettable granule (WG)

APPLICATION RATE AND ACRES TREATED

- **Application rate:** 11.7 grams/acre
- **Acres Treated:** 40 acres/case

PACKAGE SIZE

- **Case:** 4 X 117.5 water soluble bags

WATER VOLUME

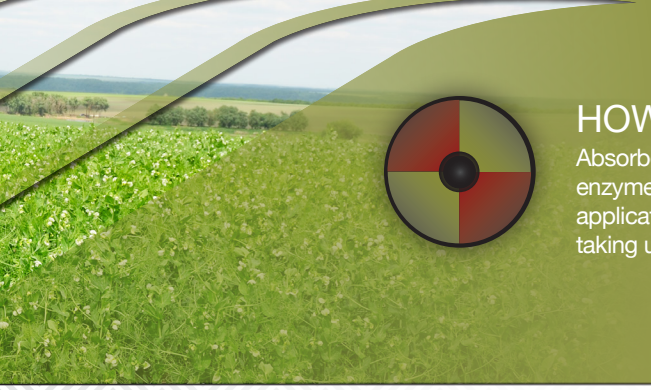
- 10 US gallons/acre (40 L/acre)

SURFACTANT

- **VIKING PHC Adjuvant** at 5 L per 1,000 L of water

RAINFAST

- 3 hours



HOW VIKING IMAZAMOX WORKS:

Absorbed by foliage and roots, disrupts plant metabolism via inhibition of the ALS enzyme, which causes growth to stop. Growth of susceptible plants stops soon after application, symptoms include discoloration (yellowing, browning), with complete control taking up to 2-4 weeks.

CROP STAGING

- **Crop stage:** up to 6 node
- **Weed stage:** up to and including 4 leaf stage

CROP ROTATIONS

- **1 year after application**: Field peas, canola[Δ], spring wheat, durum wheat, barley, tame oats, flax, Clearfield® sunflowers[**]
- There is insufficient data for other crops. Conduct a field bioassay the year before growing any crop other than those listed above.

[Δ]Initial injury to non-Clearfield® canola may be observed.
[**]Sunflower varieties with the Clearfield® trait

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Bentazon Herbicide, VIKING Clethodim Herbicide, VIKING Quizalofop Herbicide.**

GRAZING RESTRICTIONS

- Treated fields can be grazed or cut for feed 20 days after application.

PREHARVEST INTERVAL

- Treated crops can be harvested 60 days after application.

STORAGE

- Store this product away from food or feed. Keep from freezing. Keep unused water-soluble bags in resealed original container, and keep packages dry at all times.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and start agitation.
2. Add the required amount of **VIKING Imazamox Herbicide** and agitate until product is fully dissolved.
3. If required, add correct amount of tank mix partners.
4. Add the required amount of **VIKING PHC Adjuvant**.
5. Fill the remainder of the tank with water and apply.
6. If application is paused prior to completion, agitate and resuspend spray solution prior to re-commencing spraying.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when applied between 12°C and 24°C during warm moist growing conditions when weeds are small and actively growing. Typical symptoms (discoloration at the growing point) may not be noticeable for several days to 2 weeks depending on growing conditions. For optimum control weeds must be emerged but less than 4 leaf stage for optimum control. Use higher water volumes for dense weed populations and thick crop canopies. Do not apply if temperatures of +5°C or lower are forecast within 3 days of application. Application just before or after cold temperatures can result in crop injury or reduced weed control. Control will be reduced, or crop injury may occur if plants are stressed by lack of moisture, excessive moisture, poor fertility, cold temperatures or other crop stress factors. **VIKING Imazamox Herbicide** can be persistent in soil. Drought, extremes in soil pH and excessive cold may result in an increased potential for injury to succeeding crops.

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PULSE CROP BROAD SPEC HERBICIDE

VIKING™ IMAZETHAPYR

Herbicide



Ferocious™, powerful control or suppression of redroot pigweed, stinkweed, volunteer canola (non-Clearfield®), & wild mustard plus 8 additional grass and broadleaf weedsh flushing weed control and tank mix options for improved grass control in pulses and soybeans and legumes.

GROUP 2

REPLACES: Pursuit®

REGISTERED CROPS AND USES

- Alfalfa (newly seeded purestand for forage or seed production)
- Alfalfa (established for seed production)
- Chickling vetch (seed production only)
- Dry beans (pinto, pink, red)
- Field peas
- Soybeans (Manitoba only)

WEEDS CONTROLLED[1]

(up to 4 leaf stage)

- Chickweed[3]
- Cleavers[3]
- Green foxtail
- Hemp-nettle[3]
- Redroot pigweed
- Shepherd's purse[3]
- Smartweed
- Stinkweed[3]
- Volunteer canola[1]
- Wild mustard[3]

WEEDS SUPRESSED

- Wild oats[2]
- Wild buckwheat

[1] Only non-Clearfield® varieties.
[2] For suppression of wild oats apply between the 2-4 leaf stage of the weed.
[3] Certain populations of these weed are known to be resistant to group 2. If you suspect this potential on your farm, follow recommendations in the Resistance-Management Recommendations of the product label. .

ACTIVE INGREDIENT

- Imazethapyr 240 g/L solution

APPLICATION RATE AND ACRES TREATED

- **Application rate:** 84 mL/acre (Western Canada only)
- **Acres Treated:** 78 acres/case (Western Canada only)
- See product label for additional application rates by region and crop.

PACKAGE SIZE

- **Case:** 2 X 3.3 L jugs

WATER VOLUME

- 10-40 US gallons/acre (40-160 L/acre)
- Required water volume is crop and use specific. See product label for requirements.

SURFACTANT

- Agral® 90 or AgSurf® at 2.5 L per 1,000 L of water

RAINFAST

- 3 hours

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HOW VIKING IMAZETHAPYR WORKS:

Absorbed by foliage and roots, disrupts plant metabolism via inhibition of the ALS enzyme, which causes growth to stop. Growth of susceptible plants stops soon after application, symptoms include discoloration (yellowing, browning), with complete control taking up to 2-4 weeks.

CROP STAGING

- **Crop stage:** up to 6 node
- **Weed stage:** up to and including 4 leaf stage

CROP ROTATIONS

- **Year of application**: Field peas, CL canola
- 1 year after application: Alfalfa, barley, CL canola, field peas, lentils, spring wheat
- **2 years after application**: Non-Clearfield canola
- Conduct a field bioassay the year before growing any crop other than those listed above.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Clethodim Herbicide, VIKING Quizalofop Herbicide**

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

GRAZING RESTRICTIONS

- Grazing restrictions are crop specific - see product label for details.

PREHARVEST INTERVAL

- Preharvest interval is crop specific - see product label for details.

STORAGE

- Store this product away from food or feed. Keep from freezing. DO NOT store below 0ºC. If the product is exposed to temperatures below 0º C, make sure the product has thawed completely, and shake the container vigorously before use.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and start agitation.
2. Add the required amount of **VIKING Imazethapyr Herbicide** and agitate until product is fully dissolved.
3. If required, add correct amount of tank mix partners.
4. Add the required amount of surfactant.
5. Fill the remainder of the tank with water and apply.
6. If application is paused prior to completion, agitate and resuspend spray solution prior to re-commencing spraying.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Apply in the black or grey wooded soils only. Best control will occur when applied between 12°C and 24°C during warm moist growing conditions when weeds are emerged but less than 4 leaf stage. Typical symptoms (discoloration at the growing point) may not be noticeable for several days for up to two weeks, control of weeds may take 3-4 weeks. Use higher water volumes for dense weed populations and thick crop canopies. Do not apply if temperatures of +5°C or lower are forecast within 3 days of application. Application just before or after cold temperatures can result in crop injury or yellowing. Weed control will be reduced, or crop injury may occur if plants are stressed by lack of moisture, excessive moisture, poor fertility, cold temperatures or other crop stress factors. **VIKING Imazethapyr Herbicide** can be persistent in soil and has re-cropping restrictions; drought, extremes in soil pH and cold temperatures may result in an increased risk of injury to succeeding crops.

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CEREAL BROADLEAF HERBICIDE

VIKING™ KALMAR

Herbicide



Ferocious™, proven, and reliable control of cleavers, kochia (including Group 2 resistant), and over 40 other tough-to-kill weeds plus a wide window of application, excellent crop safety and multiple tank mix options in spring and durum wheat.

GROUP 4

REPLACES: OcTTain™

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat

WEEDS CONTROLLED

- Annual sunflower
- Bluebur
- Blue lettuce[1,4]
- Burdock
- Cleavers
- Cocklebur
- Dandelion[2,4]
- Docks[4]
- Dog mustard[4]
- Field bindweed[1,4]
- Field horsetail[1]
- Field peppergrass[4]
- Flixweed
- Goat's-beard
- Gumweed[4]
- Hairy galinsoga[4]
- Hedge bindweed[4]
- Hoary cress[1]
- Kochia[3] (up to 15 cm)
- Lady's-thumb[4]
- Lamb's-quarters
- Leafy spurge[1,4]
- Oak-leaved goosefoot[4]
- Plantain
- Prickly lettuce
- Ragweed
- Redroot pigweed[4]
- Round-leaved mallow[4] (1-6 leaf)
- Russian thistle[4]
- Shepherd's purse
- Smartweed[4]
- Stork's-bill[4] (1-8 leaf)
- Sweet clover
- Stinkweed
- Tansy mustard[4]
- Tartary buckwheat[4]
- Vetch
- Volunteer canola (including all HT types)
- Volunteer flax (1-12 cm)
- Wild buckwheat (1-4 leaf)
- Wild mustard
- Wild radish

WEEDS SUPRESSED

- Annual sow thistle[4]
- Canada thistle[1,4]
- Common chickweed[3,4]
- Hemp-nettle[4]
- Perennial sow thistle[1,4]

[1] Top growth control only
[2] Spring rosettes
[3] Including Group 2 resistant biotypes
[4] Requires the addition of 2.3 oz ae/acre (100 mL) of 2,4-D Ester 660 g/L

ACTIVE INGREDIENTS

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- 2,4-D ester 660 g/L emulsifiable concéntrate (EC)

APPLICATION RATE AND ACRES TREATED

- **Rates**: 240 mL/acre **VIKING Fluroxypyr Herbicide** + 245 mL/acre of **VIKING 2,4-D Ester 700 Herbicide**
- **Acres Treated**: 40 acres/case.

PACKAGE SIZE

- **Case:** 1 X 9.6 L jug **VIKING Fluroxypyr Herbicide** + 1 x 9.8 L jug **VIKING 2,4-D Ester 700 Herbicide**

WATER VOLUME

- 10 US gallons/acre (40 L/acre)

SURFACTANT

- Not required

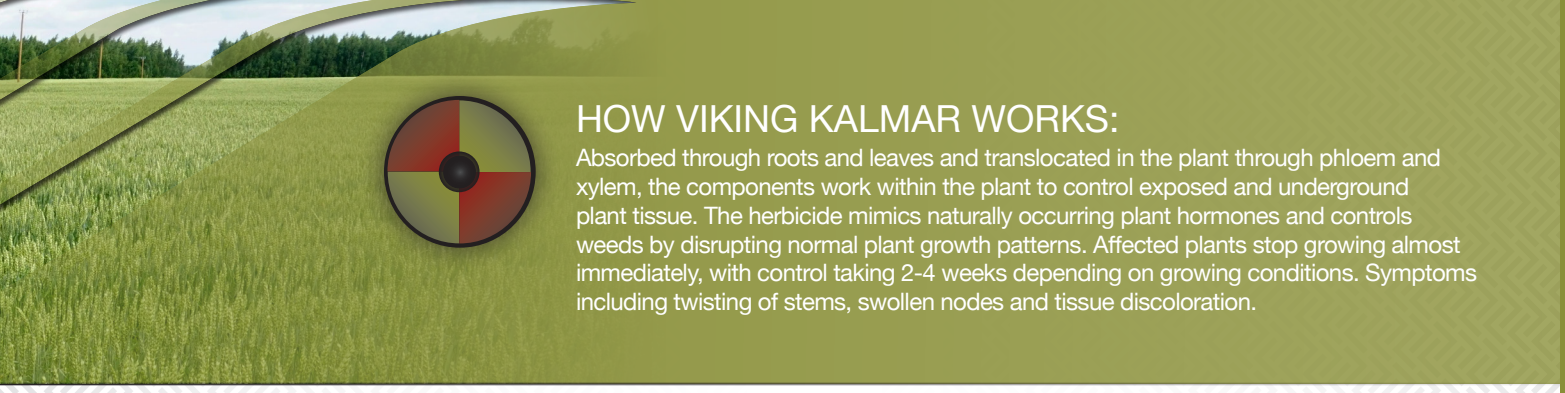
RAINFAST

- 4 hours

Ferocious™ Protection for Canada's Crops.

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HOW VIKING KALMAR WORKS:

Absorbed through roots and leaves and translocated in the plant through phloem and xylem, the components work within the plant to control exposed and underground plant tissue. The herbicide mimics naturally occurring plant hormones and controls weeds by disrupting normal plant growth patterns. Affected plants stop growing almost immediately, with control taking 2-4 weeks depending on growing conditions. Symptoms including twisting of stems, swollen nodes and tissue discoloration.

CROP STAGING

- **Crop stage:** 4 leaf – flag leaf
- **Weed stage:** 2 – 4 leaf stage

CROP ROTATIONS

- All major crops can be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Clodinafop Herbicide, VIKING Fenoxaprop Herbicide, VIKING Flucarbazone Herbicide, VIKING Navik Herbicide,** Liquid Achieve™, Simplicity™Δ, Traxos®

†Spring or durum wheat only
Δ Do not tank mix with Simplicity if adding additional 2,4-D Ester

GRAZING RESTRICTIONS

- Livestock may be grazed on treated areas 7 days after application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.

PREHARVEST INTERVAL

- Allow 7 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application.

STORAGE

- Store this product away from food or feed. Do not freeze. If product is frozen, bring to room temperature and agitate before use.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. If tank mixing, add the required amount of grassy weed control tank mix partner.
3. Add the required amount of **VIKING Fluroxypyr Herbicide.**
4. Add the required amount of **VIKING 2,4-D Ester 700 Herbicide.**
5. Add surfactant if required, then complete filling of spray tank, and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur with temperatures between 12°C C and 24°C in warm moist conditions when weeds are small and actively growing. Typical symptoms (twisting of the stems) of dying weeds may not be visible for up to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks. When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or more than 27° C), control can be reduced or delayed since weeds are not actively growing. Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

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CEREAL BROADLEAF HERBICIDE

VIKING™ LARVIK

Herbicide



Ferocious™, proven and strong performance, with 3 powerful active ingredients for outstanding control of cleavers (including Group 2 resistant), kochia (including Group 2 resistant), Canada thistle (seasonal control), hemp-nettle, and narrow-leaved hawk's-beard, plus control or suppression of 23 additional tough to kill broadleaf weeds, a wide window of application and excellent crop safety in spring wheat, durum wheat and barley.

GROUP 2 & 4

UNIQUE TO VIKING

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Barley

WEEDS CONTROLLED

- Ball mustard
- Canada thistle[1]
- Chickweed[2]
- Cleavers[3] (1-6 whorl)
- Common groundsel
- Corn spurry
- Cow cockle
- Flixweed
- Green smartweed
- Hemp-nettle
- Kochia[3] (up to 8 leaf)
- Lady's-thumb
- Lamb's quarters
- Narrow-leaved hawk's-beard
- Redroot pigweed
- Russian thistle
- Shepherd's purse
- Stinkweed
- Volunteer canola[4]
- Volunteer flax (1-12 cm)
- Volunteer sunflower
- Wild buckwheat[5]
- Wild mustard

WEEDS SUPRESSED

- Round-leaved mallow[6]
- Scentless chamomile
- Sow thistle[1]
- Stork's-bill (2-6 leaf)
- Toadflax[7]

[1] Seasonal control. For best results, apply before bud stage when thistles are no taller than 15 cm.
[2] Apply when chickweed is small and actively growing, but before canopy prevents thorough coverage.
[3] Including Group 2 resistant biotypes.
[4] Addition of MPCA is required to control Clearfield® canola, see label for recommended rates.
[5] Cotyledon to 5-leaf. Under stress conditions control will be reduced and large plants may regrow after treatment.
[6] Plants will be stunted but populations may not be reduced.
[7] Apply when toadflax is no taller than 15 cm in height. A control program for this weed includes both frequent tillage and chemical application.

ACTIVE INGREDIENTS

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- Thifensulfuron methyl 50% + Tribenuron methyl 25% wettable granules (WG)
- Clopyralid 360 g/L liquid (L)

APPLICATION RATE AND ACRES TREATED:

- 8 grams/acre **VIKING Navik Herbicide** + 240 mL/acre **VIKING Fluroxypyr Herbicide** + 85 mL/acre **VIKING Clopyralid Herbicide**
- **Acres Treated:**
  Case: 40 acres
  Bulk: 960 acres

PACKAGE SIZE:

- **Case**: 2 X 320 gram bottle **VIKING Navik Herbicide** + 1 X 9.6 L jug **VIKING Fluroxypyr Herbicide** + 1 X 3.4 L jug **VIKING Clopyralid Herbicide**
- **Bulk**: 230 L tote **VIKING Fluroxypyr Herbicide** + 81 L drum **VIKING Clopyralid Herbicide** + (24 x 320 gram bottle) **VIKING Navik Herbicide**

WATER VOLUME:

- Minimum 10 US gallons/acre (40 L/acre)

SURFACTANT:

- None required.

RAINFAST:

- 4 hours

Ferocious™ Protection for Canada's Crops.

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HOW VIKING LARVIK WORKS:

VIKING Larvik Herbicide contains three complementary active ingredients (group 2 and 4) which are absorbed through roots and leaves and translocated in the plant through phloem and xylem. The three components work within the plant to control exposed and underground plant tissue. The herbicide actives mimic naturally occurring plant hormones and controls weeds by disrupting normal plant growth patterns. Susceptible plants stop growing almost immediately, with control taking 2-4 weeks depending on growing conditions. Symptoms including twisting of stems, swollen nodes and tissue discoloration.

CROP AND WEED STAGING:

- **Crop stage**: 3 leaf to flag leaf
- **Weed stage**: less than 10 cm in height or diameter.

CROP ROTATIONS:

- **1 year after application:** wheat barley, canola, rye, sugar beets, flax, mustard, oats, peas† or summerfallow.
- Crops not listed may be grown 2 years after application.

† For pea rotation, rainfall from June 1 to August 31 in the year of application must be more than 140 mm (5.5. inches) and annual rainfall must be more than 175 mm (6.9 inches).

REGISTERED AND SUPPORTED TANK MIXES*:

- **VIKING Pinoxaden 50 Herbicide, VIKING Clodinafop Herbicide, VIKING Fenoxaprop Herbicide, VIKING Flucarbazone Herbicide**, MCPA 600 Ester @190 ml/acre, Axial®, Simplicity™, Traxos®.

GRAZING RESTRICTIONS:

- Livestock can be grazed on treated areas 7 days after application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.

PREHARVEST INTERVAL:

- Allow 7 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application.

STORAGE:

- Store this product away from food or feed. Do not freeze. If product is frozen, bring to room temperature and agitate before use.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. Add the required rate of **VIKING Navik Herbicide** and fully dissolve.
3. Add the required amount of grass weed control tank mix partner.
4. Add the required amount of **VIKING Fluroxypyr Herbicide**.
5. Add the required amount of **VIKING Clopyralid Herbicide**.
6. Add any required surfactants, complete filling of sprayer and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Use 50 mesh or larger screens in spraying equipment. Best control will occur when applied between 12°C and 24°C in warm moist growing conditions. Ensure thorough spray coverage of target weeds and use higher water volumes with dense crop canopy and/or large weeds. Typical symptoms (discoloration) of dying weeds may not be noticeable for 1 to 3 weeks after application depending upon growing conditions. Control of weeds may take 3-4 weeks. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur. Application to crops that are stressed by severe weather conditions, drought, frost, water-logged soils, disease, insect damage, or low fertility may result in crop injury. Product will degrade if left in the sprayer for more than 24 hours after mixing.

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CEREAL BROADLEAF HERBICIDE

VIKING™ LIDINGO

Herbicide



Ferocious™, proven, and reliable control of cleavers, kochia (including Group 2 esistant), and 20 other tough-to-kill weeds plus a wide window of application, excellent crop safety and multiple tank mix options in spring wheat, durum wheat and barley

GROUP 4

REPLACES: Trophy®

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Barley

WEEDS CONTROLLED

- Annual sunflower
- Burdock (prior to 4 leaf)
- Cleavers (1-4 whorls)
- Cocklebur
- Flixweed[2]
- Hemp-nettle (2-6 leaf)[2]
- Kochia (2-8 leaf)[1]
- Lamb's-quarters
- Mustards (except dog and tansy)
- Plantain
- Prickly lettuce
- Ragweeds
- Russian pigweed[2]
- Shepherd's purse[2]
- Stinkweed
- Vetch
- Volunteer canola[2]
- Volunteer flax (1-12 cm)
- Wild radish

WEEDS SUPRESSED

- Green smartweed[4]
- Stork's-bill (1-8 leaf)
- Wild buckwheat[4]

[1] Including Group 2 resistant biotypes.
[2] Controlled with an additional 122 ml/ac MCPA 600 Ester
[3] Suppressed with an additional 122 ml/ac MCPA 600 Ester

ACTIVE INGREDIENTS

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- MCPA ester 600 g/L emulsifiable concéntrate (EC)

APPLICATION RATE AND ACRES TREATED

- **Rates**: 240 mL/acre **VIKING Fluroxypyr Herbicide** + 250 mL/acre of **VIKING MCPA Ester 600 Herbicide**
- **Acres Treated**: 40 acres/case.

PACKAGE SIZE

- **Case**: 1 X 9.6 L jug **VIKING Fluroxypyr Herbicide** + 1 x 10 L jug **VIKING MCPA Ester 600 Herbicide**

WATER VOLUME

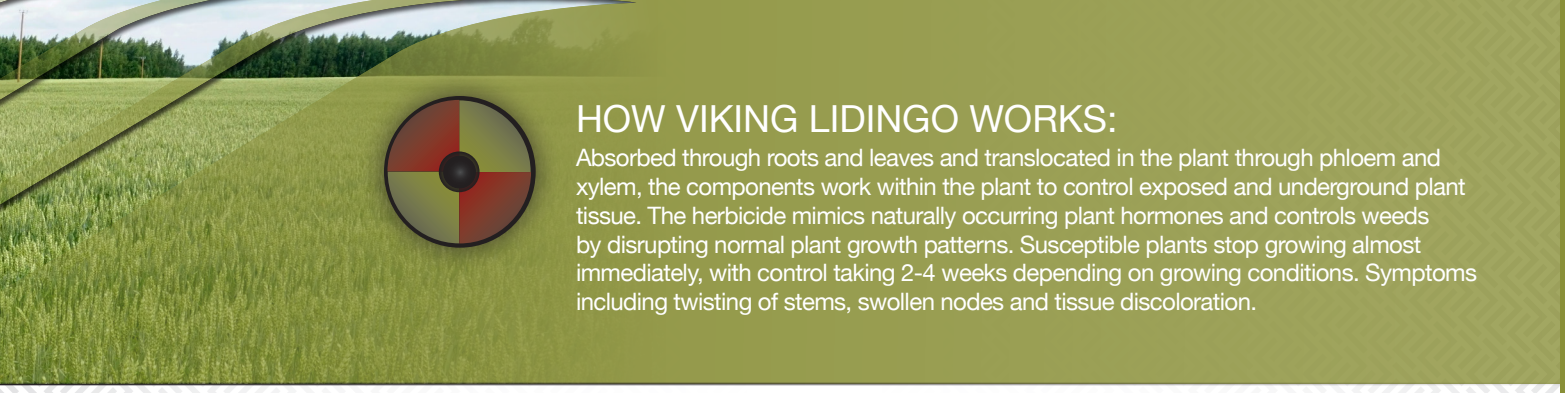
- 10 US gallons/acre (40 L/acre)

SURFACTANT

- Not required

RAINFAST

- 4 hours



HOW VIKING LIDINGO WORKS:

Absorbed through roots and leaves and translocated in the plant through phloem and xylem, the components work within the plant to control exposed and underground plant tissue. The herbicide mimics naturally occurring plant hormones and controls weeds by disrupting normal plant growth patterns. Susceptible plants stop growing almost immediately, with control taking 2-4 weeks depending on growing conditions. Symptoms including twisting of stems, swollen nodes and tissue discoloration.

CROP STAGING

- **Crop stage**: 3 leaf – flag leaf
- **Weed stage**: 2 – 4 leaf stage

CROP ROTATIONS

- All major crops can be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Clodinafop Herbicide, VIKING Fenoxaprop Herbicide, VIKING Flucarbazone Herbicide, VIKING Pinoxaden 50 Herbicide**, Liquid Achieve™, Simplicity™, Traxos®

GRAZING RESTRICTIONS

- Livestock may be grazed on treated areas 7 days after application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.

PREHARVEST INTERVAL

- Allow 7 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application.

STORAGE

- Store this product away from food or feed. Do not freeze. If product is frozen, bring to room temperature and agitate before use.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. If tank mixing, add the required amount of grassy weed control tank mix partner.
3. Add the required amount of **VIKING Fluroxypyr Herbicide.**
4. Add the required amount of **VIKING MCPA Ester 600 Herbicide**.
5. Add surfactant if required, then complete filling of spray tank, and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur with temperatures between 12°C C and 24°C in warm moist conditions when weeds are small and actively growing. Typical symptoms (twisting of the stems) of dying weeds may not be visible for up to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks. When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8° C or more than 27° C), control can be reduced or delayed since weeds are not actively growing. Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

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PULSE CROP BROAD SPEC HERBICIDE

VIKING™ METRIBUZIN

Herbicide



Ferocious™, effective and proven control or suppression of 14 broadleaf weeds including Group 2 resistant biotypes plus early application timing options for optimum yield potential and pre-seed or in-crop application options in pulse and specialty crops.

GROUP 5

REPLACES: Sencor®

REGISTERED CROPS AND USES

- Lentils
- Chickpeas
- Field peas
- Processing peas
- Fababeans
- Soybeans
- Barley
- Spring wheat
- Dryland winter wheat
- Potatoes
- Asparagus (established)
- Highbush blueberries (newly planted)
- Carrots
- Narrow-leaved lupin
- Shelterbelts

WEEDS SUPRESSED

(post-emergent application in chickpeas and lentils):

- Ball mustard
- Common chickweed
- Corn spurry
- Green smartweed
- Hemp-nettle
- Lamb's-quarters
- Stinkweed
- Tartary buckwheat
- Volunteer non-triazine tolerant canola
- Wild mustard

ACTIVE INGREDIENT

- Metribuzin 75% wettable granular

APPLICATION RATE AND ACRES TREATED

- **Case**: 64-80 acres (rate dependent)
- See product label for application rates by crop and use.

PACKAGE SIZE

- **Case**: 2 X 5 kg box

WATER VOLUME

- **Preplant incorporated**: 10 US gallons/acre (40L/acre)
- **Post-emergent**:
  Cereals - 10 US gallons/acre (40L/acre)
  Pulses - 18 US gallons/acre (70 L/acre)

SURFACTANT

- None required
- Pre-emergent applications: under drought conditions and for improved burndown of small emerged annual weeds, non-ionic surfactant may be added at 0.1% v/v (1 L per 1,000 L spray solution)

RAINFAST

- 6 hours



HOW VIKING METRIBUZIN WORKS:

A POST (foliar) PSII Inhibitor/ Membrane disruptor herbicide that is absorbed by leaves and roots and translocates to new growth. Contact and systemic activity leads to inhibition of photosynthesis resulting in weeds turning brown and dying.

CROP STAGING

- **Peas, lentils**: Up to 6" vine length
- **Chickpeas**: Up to 2.5" tall when vines have 1-3 above ground nodes
- **Cereals**: 2-5 leaf stage
- **Weed stage**: Apply when weeds are small, approximately 2 inches in height or diameter.

CROP ROTATIONS

- Do not seed canola the year after application.
- Fall seeded crops may be injured when seeded the same year as preplant or post-emergence applications.
- See label for more details and complete list of sensitive crops.

REGISTERED AND SUPPORTED TANK MIXES*

- **Soybeans** (pre-plant incorporated): S- Metolachlor 960 Herbicide, Treflan® EC (pre-emergent only)
- **Cereals**: 2,4-D Amine, Banvel, MCPA Amine

GRAZING RESTRICTIONS

- Peas, chickpeas, or lentils may be grazed 70 days after treatment.
- Graze cereals 30 days after application.

PREHARVEST INTERVAL

- **Barley, wheat, potatoes**: 60 days
- **Lentils, field peas, chickpeas**: 70 days
- See product label for complete information on pre-harvest interval by crop.

STORAGE

- Store this product away from food or feed. Keep away from children. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, seeds, fertilizers, food, and feed.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and start agitation.
2. Add the required amount of **VIKING Metribuzin Herbicide** and agitate until dissolved.
3. If required, add correct amount of tank mix partners.
4. If required, add correct amount of surfactant.
5. Fill the remainder of the tank with water and apply.
6. If application is stopped prior to completion, resuspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when applied between 12°C and 24°C in warm moist growing conditions. Using lower than recommended water volumes increases the risk of leaf burn. Allow at least 4 to 5 days between **VIKING Metribuzin Herbicide** application and a grass weed herbicide. Crop must be seeded at least 5 cm. below soil surface. Be aware of soil organic matter levels when applying as special conditions may occur. See label for more details. Crop injury may occur if high temperatures occur within 48 hours of application. Cold, cloudy weather or frost within 3 days of application will also aggravate injury. Typical symptoms (yellowing) generally are usually seen 5-7 days after application with weeds turning brown and dying within 14-16 days. Early application is critical; application past the labelled crop stage can result in severe crop injury. Heavy rain after application may result in severe crop injury. Control will be reduced, or crop injury may occur if plants are stressed due to lack of moisture, excessive moisture, poor fertility, cold temperatures, or other crop stress factors.

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CEREAL BROADLEAF HERBICIDE

VIKING™ NAVIK

Herbicide

Ferocious™, reliable and proven control of hemp-nettle, redroot pigweed, chickweed, mustard species and many more tough-to-kill broadleaf weeds plus outstanding crop safety, a wide window of application and numerous tank mix options in wheat, barley, oats and seedling and established forage grasses.

GROUP 2

REPLACES: Refine®

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Winter wheat
- Barley
- Oats
- Seedling and established forage grasses for forage and seed production only

WEEDS CONTROLLED

- Ball mustard
- Chickweed[1]
- Common groundsel
- Corn spurry
- Cow cockle
- Flixweed
- Green smartweed
- Hemp-nettle
- Kochia
- Lady's-thumb
- Lamb's quarters
- Narrow-leaved hawk's-beard
- Redroot pigweed
- Russian thistle
- Shepherd's purse
- Stinkweed
- Tartary buckwheat
- Volunteer canola[3]
- Volunteer sunflower
- Wild buckwheat[4]
- Wild mustard

WEEDS SUPRESSED

- Canada thistle[5]
- Cleavers[2] (1-3 whorls)
- Round-leaved mallow[6]
- Scentless chamomile
- Sow thistle[5]
- Stork's-bill
- Toadflax[7]

[1] Emerged plants only. Apply when chickweed is small and actively growing and before canopy close.
[2] Not including Clearfield® tolerant varieties.
[3] Apply to actively growing wild buckwheat in the cotyledon to 3 leaf stage. Large plants may regrow after treatment.
[4] Apply before the bud stage when thistles are less than 15 cm in height and when majority of thistles have emerged and are actively growing.
[5] Apply to actively growing mallow from 2-6 leaf stage, plants will be stunted but overall populations may not be reduced.
[6] Apply when weeds are no taller than 15 cm in height. A control program includes both chemical application and tillage.

ACTIVE INGREDIENTS

- Thifensulfuron methyl 50% + Tribenuron methyl 25% wettable granule (WG)

APPLICATION RATE AND ACRES TREATED

- **Application rate:** 8 grams/acre
- **Acres Treated:** 40 acres/bottle

PACKAGE SIZE

- **Bottle:** 320 grams

WATER VOLUME

- **Ground**: Minimum 5 US gallons/acre (20 L/acre)
- **Aerial**: Minimum 2.5 US gallons/acre (10 L/acre

SURFACTANT

- If used alone: Agral® 90 or AgSurf® at 2 L per 1,000 L water.
- If mixed with a wild oat herbicide, only the surfactant required by that product is needed.

RAINFAST

- 1 hour

Ferocious™ Protection for Canada's Crops.

VIKING

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HOW VIKING NAVIK WORKS:

Systemic herbicide that is absorbed by leaves and roots and moves rapidly to the growing points of the plant. Growth of susceptible plants stops soon after application, symptoms include discoloration (yellowing, reddening, and oranging), with control taking up to 2-4 weeks.

CROP STAGING

- **Crop stage:**
  Cereals: 2 leaf to flag leaf, prior to head emergence.
  Forage grasses: post-emergence
- **Weed stage**: less than 10 cm in height or diameter

CROP ROTATIONS

- All major crops can be grown the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Clodinafop Herbicide, VIKING Drammen Herbicide, VIKING Fenoxaprop Herbicide, VIKING Flucarbazone Herbicide, VIKING Kalmar Herbicide, VIKING Pinoxaden 50 Herbicide, VIKING 2,4-D Ester 700 Herbicide, VIKING MPCA Ester 600 Herbicide,** Simplicity™, Traxos®

GRAZING RESTRICTIONS

- Treated crop may be grazed or fed to livestock 7 days after application.

PREHARVEST INTERVAL

- No preharvest interval indicated.

STORAGE

- Product may be frozen. Store this product away from food or feed. Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required rate of **VIKING Navik Herbicide** and dissolve.
3. Add the required amount of grass weed control tank mix partner.
4. Add any required EC (liquid) formulation products such as MCPA.
5. Add surfactant if required, then complete filling tank and apply.
6. Product must be applied within 12 hours in order to remain effective.
7. Note: Product will degrade if left in the sprayer for more than 24 hours.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Use 50 mesh or larger screens in spraying equipment. Best control will occur when applied between 12°C and 24°C in warm moist growing conditions when weeds are small. Ensure thorough spray coverage of target weeds and use higher water volumes with dense crop canopy and/or large weeds. Typical symptoms (discoloration) of dying weeds may not be noticeable for 1 to 3 weeks, with control of weeds taking 3-4 weeks after application depending upon growing conditions. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur. Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease, or insect damage following application may also result in crop injury. Product will degrade if left in the sprayer for more than 24 hours.

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PULSE CROP BROAD SPEC HERBICIDE

VIKING™ SKIEN

Herbicide



Ferocious™, proven control or suppression of 15 broadleaf weeds including control of redroot pigweed, stinkweed, volunteer canola and wild mustard in field peas.

GROUP 2

REPLACES: Odyssey®

REGISTERED CROPS AND USES

- Peas

WEEDS CONTROLLED

(at 17.3 grams/acre)

- Barnyard grass
- Chickweed[1]
- Cleavers[1]
- Flixweed
- Green foxtail
- Green smartweed
- Persian darnel
- Redroot pigweed
- Shepherd's purse[1]
- Stinkweed[1]
- Stork's bill
- Volunteer barley
- Volunteer canola[2]
- Volunteer tame mustard
- Volunteer tame oats
- Volunteer wheat
- Wild mustard[1]
- Wild oats

WEEDS SUPRESSED

- Hemp-nettle[1]
- Lamb's-quarters
- Wild buckwheat

[1] Not including Group 2 resistant biotypes.
[2] Not including Clearfield® varieties.

ACTIVE INGREDIENTS

- Imazamox 35% + Imazethapyr 35% water dispersible granules (WDG)

APPLICATION RATE AND ACRES TREATED

- **Application Rate:** 17.3 grams/acre
- **Acres Treated:** 40 acres/case

PACKAGE SIZE

- **Case:** 692 grams (8 x 86.5 g water-soluble bags)

WATER VOLUME

- 10 US gallons/acre (40 L/acre)

SURFACTANT

- **VIKING PHC Adjuvant** at 5 L per 1,000 L of water

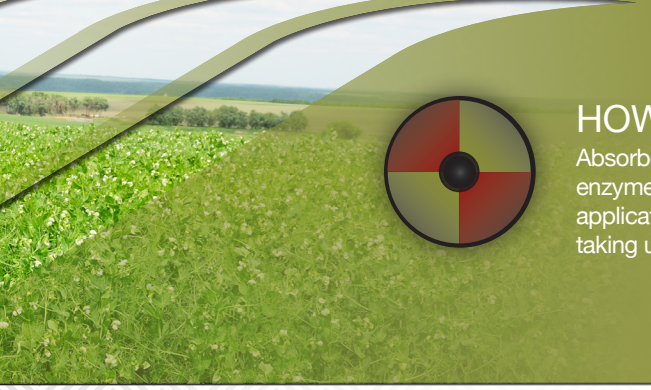
RAINFAST

- 3 hours

Ferocious™ Protection for Canada's Crops.

VIKING

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HOW VIKING SKIEN WORKS:

Absorbed by foliage and roots, disrupts plant metabolism via inhibition of the ALS enzyme, which causes growth to stop. Growth of susceptible plants stops soon after application, symptoms include discoloration (yellowing, browning), with complete control taking up to 2-4 weeks.

CROP STAGING

- **Crop stage**: 1 to 6 true leaf stage
- **Weed stage**: Up to the 4 leaf stage

CROP ROTATIONS

- **1 year after application**: Barley, chickpeas, Clearfield® canola, Clearfield lentils, durum wheat, field peas, spring wheat, tame oats.
- Conduct a field bioassay the year before growing any crop other than those listed above.
- Refer to label for area specific re-cropping restrictions.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Clethodim Herbicide, VIKING Quizalofop Herbicide**

GRAZING RESTRICTIONS

- Treated fields can be grazed or cut for feed 30 days after application.
- Do not harvest forage or cut hay for forage.

PREHARVEST INTERVAL

- Treated crops can be harvested 60 days after application.

STORAGE

- Store this product away from food or feed. Keep from freezing. Keep unused water-soluble bags in resealed original container, and keep packages dry at all times.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Use 50 mesh or coarser filter screens.
2. Fill the spray tank 1/2 full of clean water and start agitation.
3. Add the required amount of **VIKING Skien Herbicide** and agitate until product is fully dissolved.
4. If required, add correct amount of tank mix partners.
5. Add the required amount of **VIKING PHC Adjuvant**.
6. Fill the remainder of the tank with water and apply.
7. If application is paused prior to completion, agitate and resuspend spray solution prior to re-commencing spraying.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur when applied between 12°C and 24°C during warm moist growing conditions when weeds are small and actively growing. Typical symptoms (discoloration at the growing point) may not be noticeable for several days to 2 weeks depending on growing conditions. For optimum control weeds must be emerged but less than 4 leaf stage for optimum control. Use higher water volumes for dense weed populations and thick crop canopies. Do not apply if temperatures of +5°C or lower are forecast within 3 days of application. Application just before or after cold temperatures can result in crop injury or reduced weed control. Control will be reduced, or crop injury may occur if plants are stressed by lack of moisture, excessive moisture, poor fertility, cold temperatures or other crop stress factors. **VIKING Skien Herbicide** can be persistent in soil. Drought, extremes in soil pH and excessive cold may result in an increased potential for injury to succeeding crops. Do not grow LibertyLink® or Roundup Ready® canola the year after application of VIKING Skien Herbicide. Do not apply **VIKING Skien Herbicide** more than once per year.

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PULSE AND SPECIAL CROP
PRE-SEED HERBICIDE

VIKING™ SORØ

Herbicide



Ferocious™, effective, and proven control of kochia, redroot pigweed, lamb's-quarters, wild buckwheat, common purslane and 15 other tough to kill broadleaf weeds plus 2 group 14 modes of action for resistance management and a broader spectrum of weeds control, and use in different soil zones prior to seeding chickpea, field pea, flax, sunflower and soybean.

GROUP 14

REPLACES: Authority Strike™

REGISTERED CROPS AND USES

- Chickpea
- Field pea
- Flax
- Sunflower
- Soybean

WEEDS CONTROLLED*

(with the addition of glyphosate at (with the addition of glyphosate at 325 g a.i. per acre)

- Cleavers[2]
- Common groundsel[1]
- Common purslane[1]
- Common waterhemp[1]
- Eastern black nightshade[1]
- Flixweed[2]
- Kochia[1]
- Lamb's-quarters[1]
- Large crabgrass[1]
- Powell pigweed[1]
- Redroot pigweed[1]
- Round-leaved mallow[2]
- Russian thistle[2]
- Shepherd's purse[2]
- Smooth crabgrass[1]
- Stinkweed[2]
- Volunteer canola[2]
- Wild buckwheat[1]
- Yellow woodsorrel[1]

[1] Controlled pre-emergence
[2] Controlled post-emergence (see **VIKING Carfentrazone Herbicide** label for the maximum size of each weed controlled).

ACTIVE INGREDIENTS

- Carfentrazone 240 g/L emulsifiable concentrate (EC)
- Sulfentrazone 480 g/L suspension (S)

APPLICATION RATE AND ACRES TREATED

- **Application Rate**: 30 mL/acre **VIKING Carfentrazone Herbicide** + 118 mL/acre **VIKING Sulfentrazone Herbicide**
- **Acres Treated**: 160 acres/case

PACKAGE SIZE

- **Case:** 1 x 4.8 jug **VIKING Carfentrazone Herbicide** + 2 X 9.4 L jugs **VIKING Sulfentrazone Herbicide**

WATER VOLUME

- **Ground application**: 10 US gallons/acre (40L/acre)
- Do not apply by air.

SURFACTANT

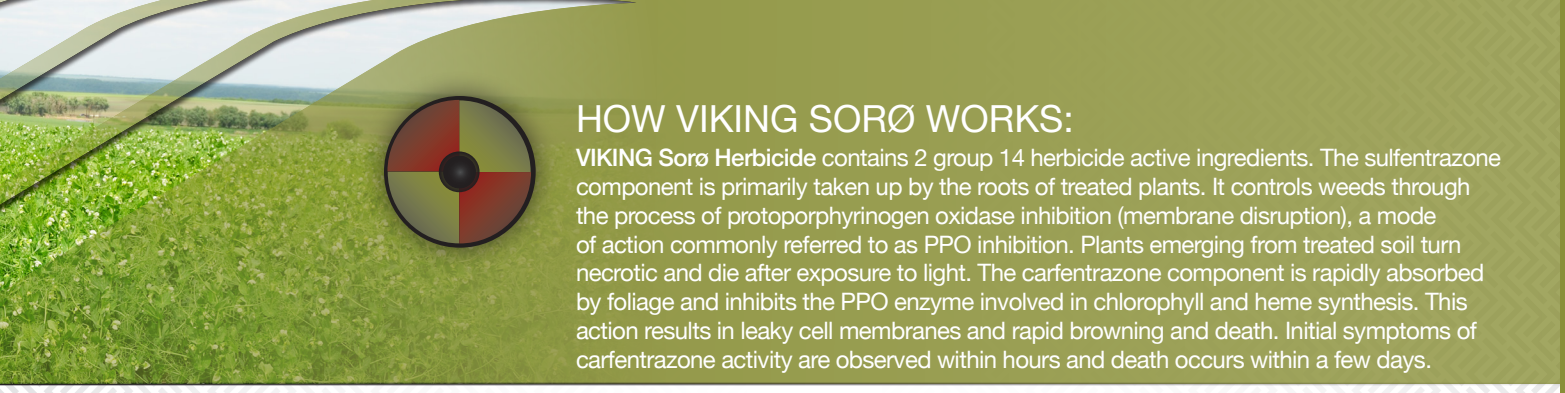
- None required when mixed with glyphosate.
- None required when mixed with glyphosate. If used alone add Agral® 90 or AgSurf® at 0.25% v/v.

RAINFAST

- 1 hours

Ferocious™ Protection for Canada's Crops.

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HOW VIKING SORØ WORKS:

VIKING Sorø Herbicide contains 2 group 14 herbicide active ingredients. The sulfentrazone component is primarily taken up by the roots of treated plants. It controls weeds through the process of protoporphyrinogen oxidase inhibition (membrane disruption), a mode of action commonly referred to as PPO inhibition. Plants emerging from treated soil turn necrotic and die after exposure to light. The carfentrazone component is rapidly absorbed by foliage and inhibits the PPO enzyme involved in chlorophyll and heme synthesis. This action results in leaky cell membranes and rapid browning and death. Initial symptoms of carfentrazone activity are observed within hours and death occurs within a few days.

CROP ROTATIONS

Rotational Crop	Replant Interval (Months)
Chickpea, field pea, flax, soybean, sunflowers	0
Alfalfa, barley, field corn, spring and durum wheat	12
Winter wheat	16
Sweet and popcorn, sorghum, canola	24
Lentils	36

For crops listed in the above rotational crop table, the minimum replant interval listed in the table must be observed. For crops not listed in the rotational crop table, A MINIMUM ROTATIONAL CROP INTERVAL OF 36 MONTHS must be observed, and a representative bioassay of the field must be conducted with the rotational crop and adequate soil moisture to evaluate potential crop sensitivity.

If there is a lack of adequate or normal soil moisture due to drought conditions following an application of **VIKING Sulfentrazone Herbicide**, the minimum rotational crop interval listed in the table must be extended for one additional year and a representative bioassay of the field must be conducted with the potential rotational crop and adequate soil moisture to determine the crop sensitivity to **VIKING Sulfentrazone Herbicide**.

Replanting Instructions

If initial planting of labeled crops fails to produce a stand, only labeled crops for **VIKING Sulfentrazone Herbicide** may be planted. Do not re-treat fields with **VIKING Sulfentrazone Herbicide**. Do not plant treated fields with any crop at intervals that are inconsistent with the Rotational Crop Guidelines listed here or on the product label. When replanting use minimum soil tillage to preserve the herbicide barrier and achieve maximum weed control.

CROP STAGING

- **Spring application:** pre-plant or pre-emergence prior to seeding or up to three days after seeding but prior to weed emergence.
- **Warning:** If post-seeding application is delayed, injury may occur if seeds are germinating or if they are located near the soil surface.

REGISTERED AND SUPPORTED TANK MIXES*

- **Viking 540 Glyphosate Herbicide**

GRAZING RESTRICTIONS

- No guidelines listed on the product label.

PREHARVEST INTERVAL

- No guidelines listed on the product label.

STORAGE

- Store this product away from food or feed. Store above 5°C to keep product from freezing. If product is frozen, thaw before use. If solid crystals are observed, warm material to above 15 °C by placing container in warm location. Shake or roll container periodically to re-dissolve solids.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and start agitation.
2. Add the required amount of **Viking Sulfentrazone Herbicide** and agitate.
3. Add the required amount of **VIKING Carfentrazone Herbicide** and continue agitation.
4. If required, add correct amount of tank mix partners.
5. If required, add correct amount of surfactant.
6. Fill the remainder of the tank with water and apply.
7. If application is stopped prior to completion, resuspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

All applications of **VIKING Sorø Herbicide** require a minimum of 13 mm of rain or irrigation water, at once, for proper activation. If the required amount of moisture is not received within 14 days of application weed control may be reduced. Do not mechanically incorporate after application as this can destroy the herbicide barrier and allow weeds to escape the treatment. Do not apply to frozen soils or existing snow cover to prevent runoff. Do not apply **VIKING Sorø Herbicide** in consecutive years (24 months). The 24-month period is considered to begin when the initial application of sulfentrazone is applied. In case of drought in any of those years, a subsequent application of **VIKING Sorø Herbicide** should be further delayed. Do not apply to soils classified as coarse-textured. Do not apply to soil with an organic matter content less than 1.5% or greater than 6%. Do not use on soils with a pH of 7.8 or greater. If using irrigation with water that has a pH greater than 7.5, please review the label for adverse crop response. Dry weather conditions as well as excessive rainfall or irrigation following application may reduce weed control. Crop injury may also occur in years with heavier than normal rainfall. Do not store the sprayer overnight or for an extended period of time with the spray mixture in the tank.

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CEREAL BROADLEAF HERBICIDE

VIKING™ STAVANGER

Herbicide



Ferocious™, powerful, and superior control of cleavers, Canada Thistle and kochia (including Group 2 resistant), and 27 other tough-to-kill weeds (high rate) plus a wide window of application, excellent crop safety and multiple tank mix options in spring wheat, durum wheat, and barley.

GROUP 4

REPLACES: Prestige™

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Barley

WEEDS CONTROLLED

Low Rate (27 acres/case)

- Burdock
- Canada thistle[1] (low infestations)
- Cleavers (1-4 whorls)
- Cocklebur
- Field horsetail3
- Flixweed[2,3] (2-4 leaf)
- Kochia[2]
- Lamb's-quarters
- Plantain[3]
- Prickly lettuce
- Ragweed
- Shepherd's-purse[4]
- Stinkweed[4]
- Sunflower (annual and volunteer)
- Vetch
- Volunteer flax (1-12 cm)
- Wild mustard
- Wild radish

High Rate (20 acres/case) (includes weeds controlled at the low rate)

- Canada thistle[1] (medium-high infestations)
- Common groundsel
- Dandelion4
- Hemp-nettle (2-6 leaf)
- Redroot pigweed
- Round-leaved mallow (1-6 leaf)
- Russian pigweed
- Scentless chamomile (2-4 leaf)
- Smartweed
- Sow thistle (annual)
- Sow thistle[3] (perennial)
- Stork's-bill (1-8 leaf)
- Tartary buckwheat
- Volunteer canola[5]
- Wild buckwheat

WEEDS SUPRESSED

Low Rate

- Stork's-bill (1-8 leaf)

High Rate

- Chickweed[2] (up to 8 cm)

[1] Season long control with some regrowth in the fall (top growth control).
[2] Including Group 2 resistant biotypes.
[3] Top growth control.
[4] Spring rosettes only.
[5] Including all HT varieties.

ACTIVE INGREDIENTS

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- Clopyralid 50 g/L + MCPA Ester 280 g/L emulsifiable concentrate (EC)

APPLICATION RATE

- **Low**: 240 mL/ac **VIKING Fluroxypyr Herbicide** + 600 mL/ac **VIKING Drammen Herbicide**
- **High**: 320 mL/ac **VIKING Fluroxypyr Herbicide** + 800 mL/ac **VIKING Drammen Herbicide**
- **Acres Treated**: 20-27 acres/case.

PACKAGE SIZE AND ACRES TREATED

- **Case**: 2 X 8 L jugs **VIKING Drammen Herbicide** + 1 x 6.4 L jug **VIKING Fluroxypyr Herbicide**

WATER VOLUME

- Minimum 10 US gallons/acre (40 L/acre)

SURFACTANT

- Not required

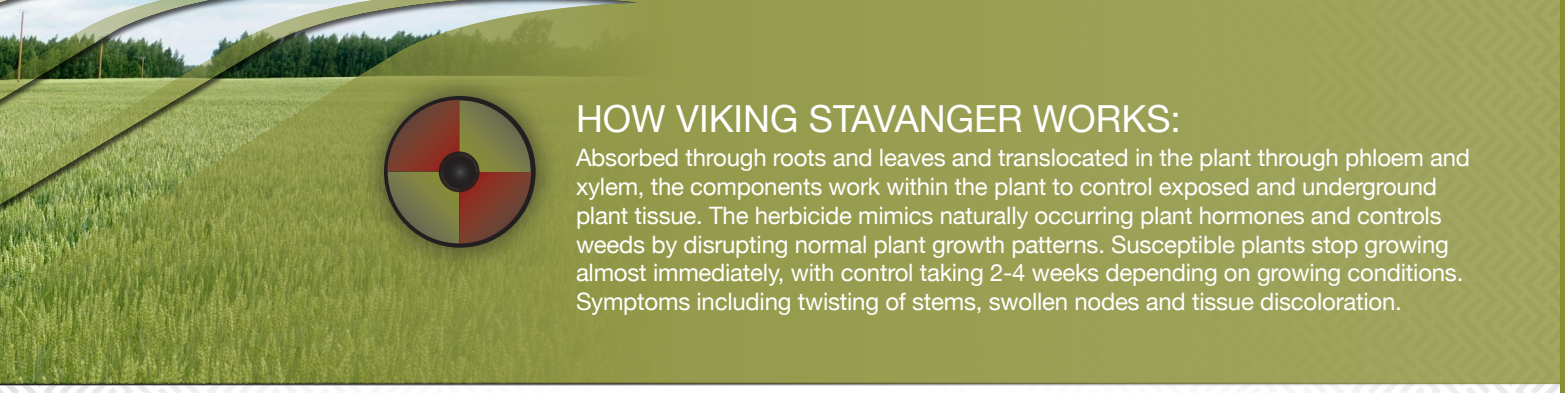
RAINFAST

- 4 hours

Ferocious™ Protection for Canada's Crops.

VIKING

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HOW VIKING STAVANGER WORKS:

Absorbed through roots and leaves and translocated in the plant through phloem and xylem, the components work within the plant to control exposed and underground plant tissue. The herbicide mimics naturally occurring plant hormones and controls weeds by disrupting normal plant growth patterns. Susceptible plants stop growing almost immediately, with control taking 2-4 weeks depending on growing conditions. Symptoms including twisting of stems, swollen nodes and tissue discoloration.

CROP STAGING

- **Crop stage**: 3 leaf – flag leaf
- **Weed stage**: 1 – 6 leaf stage (high rate) or 2 – 4 leaf stage (low rate)

CROP ROTATIONS

- 1 year after application: wheat barley, canola, rye, sugar beets, flax, mustard, oats, peas† or summerfallow.
- Do not grow crops other than those listed for at least 2 years.

†For pea rotation, rainfall from June 1 to August 31 in the year of application must be greater than 140 mm (5.5. inches) and annual rainfall must be greater than 175 mm (6.9 inches).

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Clodinafop Herbicide, VIKING Fenoxaprop Herbicide, VIKING Flucarbazone Herbicide, VIKING Pinoxaden 50 Herbicide**, Liquid Achieve™, Simplicity™Δ, Traxos®

Δ For Simplicity Herbicide tank mix use the low rate of **VIKING Stavanger Herbicide** only.

GRAZING RESTRICTIONS

- Livestock may be grazed on treated areas 7 days after application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.

PREHARVEST INTERVAL

- Allow 7 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application.

STORAGE

- Store this product away from food or feed. Do not freeze. If product is frozen, bring to room temperature and agitate before use.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and begin agitation.
2. If tank mixing, add the required amount of grassy weed control tank mix partner.
3. Add the required amount of **VIKING Fluroxypyr Herbicide**.
4. Add the required amount of **VIKING Drammen Herbicide**.
5. Add surfactant if required, then complete filling of spray tank, and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best control will occur with temperatures between 12°C C and 24°C in warm moist conditions when weeds are small and actively growing. The best thistle control will occur when thistles are in the rosette to pre-bud stage. Thistles that are not emerged or are already in the bud stage will not be controlled. Use higher rate and higher water volumes with heavier weed pressure, larger weeds and thicker crop canopy. Typical symptoms (twisting of the stems) of dying weeds may not be visible for up to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks. Wet foliage at the time of application may reduce control. Only chickweed that is emerged will be controlled; chickweed that emerges after application will not be controlled. When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or more than 27° C), control can be reduced or delayed since weeds are not actively growing. Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result. Very dry soil conditions following application can result in a risk of injury to field peas, beans, clover, alfalfa or other legumes grown in rotation. Do not seed lentils on treated fields for at least 2 years.

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PULSE AND SPECIAL CROP
PRE-SEED HERBICIDE

VIKING™ SULFENTRAZONE

Herbicide



Ferocious™, effective and proven control or suppression of 12 broadleaf weeds including kochia, redroot pigweed, lamb's-quarters, wild buckwheat, and other tough to kill broadleaf weeds plus a group 14 mode of action for resistance management, use in different soils zones, and tank mix options prior to seeding chickpea, field pea, flax, sunflower and soybean.

GROUP 14

REPLACES: Authority™

REGISTERED CROPS AND USES

- Chickpea
- Field pea
- Flax
- Sunflower
- Soybean

WEEDS CONTROLLED*

(at 118 mL/acre)

- Common grounsel
- Common purslane
- Common waterhemp
- Eastern black nightshade
- Kochia
- Lamb's-quarters
- Large crabgrass
- Powell pigweed
- Redroot pigweed
- Smooth crabgrass
- Wild buckwheat
- Yellow woodsorrel

*pre-emergent weed control only. Weeds that have already emerged will not be controlled.

ACTIVE INGREDIENTS

- Sulfentrazone 480 g/L suspension

APPLICATION RATE AND ACRES TREATED

- **Application Rate:** 118 mL/acre
- **Acres Treated:** 160 acres

PACKAGE SIZE

- **Case:** 2 X 9.4 L jugs

WATER VOLUME

- **Ground application**: 10 US gallons/acre (40L/acre)
- Do not apply by air.

SURFACTANT

- None required when mixed with glyphosate

RAINFAST

- 1 hours

CROP ROTATIONS

Rotational Crop	Replant Interval (Months)
Chickpea, field pea, flax, soybean, sunflowers	0
Alfalfa, barley, field corn, spring and durum wheat	12
Winter wheat	16
Sweet and popcorn, sorghum, canola	24
Lentils	36

For crops listed in the above rotational crop table, the minimum replant interval listed in the table must be observed. For crops not listed in the rotational crop table, A MINIMUM ROTATIONAL CROP INTERVAL OF 36 MONTHS must be observed, and a representative bioassay of the field must be conducted with the rotational crop and adequate soil moisture to evaluate potential crop sensitivity.

If there is a lack of adequate or normal soil moisture due to drought conditions following an application of **VIKING Sulfentrazone Herbicide**, the minimum rotational crop interval listed in the table must be extended for one additional year and a representative bioassay of the field must be conducted with the potential rotational crop and adequate soil moisture to determine the crop sensitivity to **VIKING Sulfentrazone Herbicide**.

Replanting Instructions

If initial planting of labeled crops fails to produce a stand, only labeled crops for **VIKING Sulfentrazone Herbicide** may be planted. Do not re-treat fields with VIKING Sulfentrazone Herbicide. Do not plant treated fields with any crop at intervals that are inconsistent with the Rotational Crop Guidelines listed here or on the product label. When replanting use minimum soil tillage to preserve the herbicide barrier and achieve maximum weed control.

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HOW VIKING SULFENTRAZONE WORKS:

The group 14 active ingredient in **VIKING Sulfentrazone Herbicide** is primarily taken up by the roots of treated plants. It controls weeds through the process of protoporphyrinogen oxidase inhibition (membrane disruption), a mode of action commonly referred to as PPO inhibition. Plants emerging from treated soil turn necrotic and die after exposure to light. Soil applications of **VIKING Sulfentrazone Herbicide** require adequate moisture (at least 13 mm at once within 2 weeks of application) for optimum control. When activating moisture is delayed, a reduced level of weed control may occur.

CROP STAGING

- **Spring application:** pre-plant or pre-emergence prior to seeding or up to three days after seeding but prior to weed emergence.
- **Warning:** If post-seeding application is delayed, injury may occur if seeds are germinating or if they are located near the soil surface.

REGISTERED AND SUPPORTED TANK MIXES*

- **All crops: Viking 540 Glyphosate Herbicide, VIKING Carfentrazone Herbicide**
- **Field pea and soybean only: Viking 540 Glyphosate herbicide + VIKING Tribenuron Herbicide.** Fields treated with this tank mix in the spring can be seeded to field pea or soybean a minimum of 24 hours after application.

GRAZING RESTRICTIONS

- No guidelines listed on the product label.

PREHARVEST INTERVAL

- No guidelines listed on the product label.

STORAGE

- Store this product away from food or feed. Store above 5°C to keep product from freezing. If product is frozen, thaw before use. If solid crystals are observed, warm material to above 15 °C by placing container in warm location. Shake or roll container periodically to re-dissolve solids.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and start agitation.
2. If required, add the required amount of dry product and agitate until dissolved.
3. Add the required amount of **VIKING Sulfentrazone Herbicide** and agitate until dissolved.
4. If required, add correct amount of tank mix partners.
5. If required, add correct amount of surfactant.
6. Fill the remainder of the tank with water and apply.
7. If application is stopped prior to completion, resuspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

All applications of **VIKING Sulfentrazone Herbicide** require a minimum of 13 mm of rain or irrigation water, at once, for proper activation. If the required amount of moisture is not received within 14 days of application weed control may be reduced. Do not mechanically incorporate after application as this can destroy the herbicide barrier and allow weeds to escape the treatment. Do not apply to frozen soils or existing snow cover to prevent runoff. Do not apply **VIKING Sulfentrazone Herbicide** in consecutive years (24 months). The 24-month period is considered to begin when the initial application of sulfentrazone is applied. In case of drought in any of those years, a subsequent application of **VIKING Sulfentrazone Herbicide** should be further delayed. Do not apply to soils classified as coarse-textured. Do not apply to soil with an organic matter content less than 1.5% or greater than 6%. Do not use on soils with a pH of 7.8 or greater. If using irrigation with water that has a pH greater than 7.5, please review the label for adverse crop response. Dry weather conditions as well as excessive rainfall or irrigation following application may reduce weed control. Do not store the sprayer overnight or for an extended period of time with a sulfentrazone spray mixture in the tank.

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CEREAL BROADLEAF HERBICIDE



VIKING™ TRYCKA

Herbicide

Ferocious™, proven, and effective, with 3 actives with 2 modes of action for superior control of cleavers, kochia (including Group 2 biotypes), wild buckwheat, volunteer canola and control or suppression of 26 additional annual and perennial broadleaf weeds, no re-cropping restrictions, excellent crop safety and a wide window of application in spring wheat, durum wheat, and barley.

GROUP 4 & 6

REPLACES: Enforcer® M

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Barley

WEEDS CONTROLLED

Seedling to 4-leaf stage

- American nightshade
- Ball mustard
- Bluebur
- Cleavers (up to 4 whorl stage)
- Cocklebur
- Cow cockle[1]
- Flixweed
- Green smartweed
- Lady's-thumb
- Night flowering catchfly
- Pale smartweed
- Redroot pigweed
- Russian thistle[2]
- Scentless chamomile[3]
- Shepherd's-purse
- Velvetleaf[4]
- Volunteer canola
- Volunteer flax (1-12 cm)
- Volunteer sunflower

Seedling 6-leaf stage

- Wild tomato

Seedling 8-leaf stage

- Common buckwheat
- Common groundsel
- Common ragweed
- Kochia[6]
- Lamb's-quarters
- Stinkweed
- Tartary buckwheat
- Wild buckwheat
- Wild mustard
- Wormseed mustard

Top Growth Control

- Canada thistle
- Stork's-bill

WEEDS SUPRESSED

- Stork's-bill

[1] In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.
[2] Spray before plants are 5 cm high.
[3] Spring annuals only.
[4] Spray before plants are 8 cm high.
[5] Including group 2 resistant biotypes.

ACTIVE INGREDIENTS

- Bromoxynil 280 g/L + MCPA Ester 280 g/L emulifiable concentrate (EC)
- Fluroxypyr 180 g/L emulifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED:

- **Application rate**: VIKING Hamar Herbicide 400 mL/acre + VIKING Fluroxypyr Herbicide 240 mL/acre
- **Acres treated**:
  Case: 40 acres/case
  Bulk: 960 acres

PACKAGE SIZE:

- **Case**: 2 x 8 L jugs **VIKING Hamar Herbicide** + 1 X 9.6 L jug **VIKING Fluroxypyr Herbicide**
- Bulk: 384 L tote **VIKING Hamar Herbicide** + 230 L tote **VIKING Fluroxypyr Herbicide**

WATER VOLUME:

- Minimum 5 US gallons/acre (20 L/acre)

SURFACTANT:

- None required.

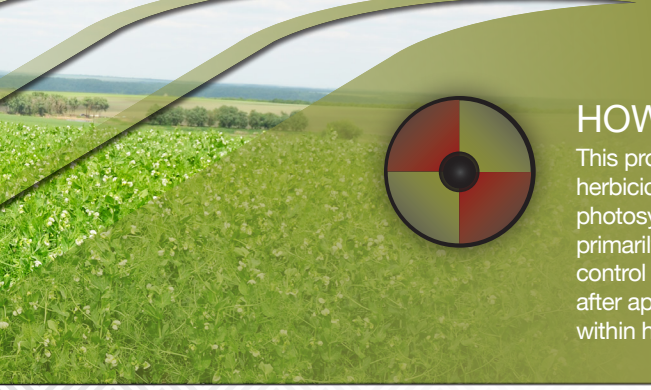
RAINFAST:

- Minimum 1 hour
- Avoid application when rainfall is forecast.

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HOW VIKING TRYCKA WORKS:

This product contains three active ingredients, a contact herbicide and 2 systemic herbicides. The bromoxynil (contact) active is a contact type herbicide and inhibits photosynthesis and plant respiration. The MCPA and fluroxypyr (systemic) actives are primarily absorbed through leaves and are readily translocated in the plant with speed of control dependent on application and growing conditions. Weeds stop growing shortly after application, with small burnt spots appearing on the leaves of susceptible weeds within hours; death takes up to 2 -3 weeks or longer.

CROP STAGING

- **Crop stage**: 2 leaf - early flag leaf
- **Weed stage**: See “weeds controlled” section.

CROP ROTATIONS:

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*:

- **Spring wheat: VIKING Clodinafop Herbicide, VIKING Fenoxoprop Herbicide, VIKING Flucarbazone Herbicide, VIKING Pinoxaden Herbicide,** Simplicity™, Varro®

GRAZING RESTRICTIONS:

- Livestock may be grazed on fields 30 days after application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.

PREHARVEST INTERVAL:

- Harvest forage or cut hay 30 days after application.
- Mature crop may be harvested 60 days after application.

STORAGE:

- Store this product away from food or feed. Product may be frozen; if product becomes frozen, gently warm contents and agitate container

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water and start agitation.
2. If required, add the correct amount of any dry formulation products.
3. If required, add the correct amount of grassy weed tank mix partner.
4. Add the required amount of **VIKING Hamar Herbicide**.
5. Add the required amount of **VIKING Fluroxypyr Herbicide**.
6. Add any required surfactant.
7. Complete filling of sprayer and apply.
8. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Best results will be achieved between 12°C and 24°C in warm moist growing conditions when weeds are small and actively growing. Good spray coverage and growing conditions are essential for optimum performance. Use higher water volumes for thicker crop canopy or heavier weed pressure. Symptoms of control (discoloration, twisting) will be visible from several days to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks after application. 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, excessive moisture, poor fertility, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

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VIKING™ AZOXYSTROBIN

Fungicide

Ferocious™, proven and affordable control of key diseases through protective and systemic activity that improves plant health and delivers effective disease control in potatoes, pulse crops cereals, canola, and many other crops.

GROUP 3

REPLACES: Quadris®

REGISTERED CROPS AND USES

- Canola
- Potatoes
- Soybeans
- Field pea
- Lentils
- Chickpeas
- Cereals
- Legume vegetables
- Seed corn
- Tomatoes
- Ginseng
- Hazelnuts
- Filberts
- Sugar beets
- Coriander
- Ferns of asparagus
- Spinach
- Sweet and field corn
- Carrots
- Radish
- Daikon
- Horseradish
- Rutabaga
- Turnip
- Garden beets
- Ground cherries

DISEASES CONTROLLED

Canola:	
Sclerotinia stem rot:	400 mL/acre
Blackleg:	200 mL/acre
Alternaria Black Spot:	Supressed at 280-400 mL/ac when applied at the early bloom stage (prior to 30% flower) Controlled at 200 mL/ac when applied at the pod stage (90% petal fall).
Soybeans:	
Asian soybean rust, powdery mildew, Cercospora leaf spot, Ascochyta blight:	200 mL/acre
Potatoes:	
Early blight, black dot:	200-320 mL/acre Late blight: 320 mL/acre
Potatoes (in furrow application):	
Silver scurf, Rhizoctonia stem canker, Rhizoctonia stolon canker, black scurf:	4-6 mL product/100 mL row
Seed corn:	
Rust (Puccinia sorghi):	170 mL/acre
Lentils:	
Anthracnose, ascochyta blight:	200 mL/acre
Field peas:	
Mycosphaerella blight, powdery mildew, anthracnose, ascochyta blight:	200 mL/acre
Dry beans:	
Anthracnose, ascochyta blight:	200 mL/acre

ACTIVE INGREDIENT

- Azoxystrobin 250 g/L suspension concentrate (SC)

APPLICATION RATE AND ACRES TREATED

- Application rate and acres treated depends on crop and disease. See Diseases Controlled section or product label for application rate by crop and disease.

PACKAGE SIZE

- **Case**: 2 x 8 L
- **Bulk**: 120 L drum, 1,000 L tote

WATER VOLUME*

- See label for instructions by crop and disease.
- **Ground**: minimum 10 US gallons/acre (40 L/ac), except potatoes in furrow (20-56 L/ac), seed corn (80 L/ac)
- **Aerial**: minimum 5 US gallons/acre (20 L/acre). (Do not apply to seed corn or potato by air.

*use higher rates for thicker crop canopies.

SURFACTANT

- Not required

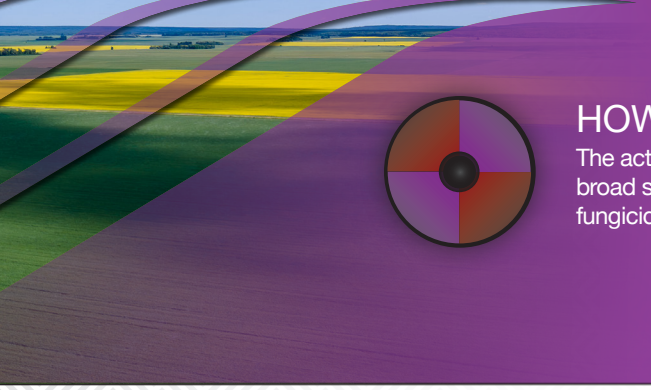
RAINFAST

- 1 hour

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HOW VIKING AZOXYSTROBIN WORKS:

The active ingredient azoxystrobin is a methoxyacrylate compound (strobilurin) with broad spectrum contact and systemic activity. The product is a broad spectrum fungicide for use as a preventative and curative fungicide.

CROP STAGING

- **Canola**:
  Sclerotinia or alternaria black spot: apply at early bloom (prior to 30% flower)
  Blackleg: Apply at 2-6 leaf stage
- **Soybean**: R1 to R3 developmental stage, or when there is 5% disease level in the field
- **Potatoes**: Prior to disease establishment. For soilborne diseases, apply in furrow.
- **Corn**: At the first sign of disease
- **Pea, lentils, dry beans**: Apply before disease is established and no later than onset of flowering.

CROP ROTATIONS

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **Cereals**: **VIKING Propiconazole Fungicide**
- **Soybeans**: **VIKING Propiconazole Fungicide**, Matador® 120EC
- **Potato**: Bravo® 500, Ridomil Gold® 480 SL or Ridomil Gold® 480 EC, Actara® 240SC.
- **Corn**: Matador® 120EC
- See label for additional diseases and insects controlled when tank mixed.

GRAZING RESTRICTIONS

- Do not feed alfalfa hay or forage to livestock. All other crops can be grazed or fed to livestock.
- Animals may be grazed on treated crops 6 days after application.

PREHARVEST INTERVAL

- **Canola**: 30 days after application
- **Corn**: 7 days after application
- **Soybeans, dry beans, legume vegetables**: 15 days after application
- See label for complete list of preharvest intervals by crop.

STORAGE

- To prevent contamination, store this product away from food or feed. Do not freeze.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required amount of any WG or DF formulation tank mix partner if needed.
3. Add required amount of **VIKING Azoxystrobin Fungicide** to the tank.
4. Add any EC formulation tank mix partners to the tank if needed, finish filling the tank with water, and apply product.
5. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.
6. Clean out sprayer equipment thoroughly after application is complete.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Consult the product label for uses, application rates and water volumes for all crops and diseases. **VIKING Azoxystrobin Fungicide** is preventative in nature. The best disease control will be achieved when applied prior to disease establishment. Good coverage is essential for effective disease control; always use higher water volumes with denser crop canopies. Use **VIKING Azoxystrobin Fungicide** as part of an integrated disease management strategy including resistant crop varieties, crop rotation, and plant residue management. Fungicide rotation is critical to help prevent fungicide resistance. Do not apply more than 2 applications of **VIKING Azoxystrobin Fungicide** per season. If additional fungicide applications are required, switch to a fungicide with a different mode of action.

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VIKING™ DROBAK

Fungicide

Ferocious™, proven disease control with multiple modes of action for cost-effective leaf disease control, resistance management, preventative and curative activity, a wide window of application, tank mixability with foliars, and improvement in overall plant health in wheat and barley.

GROUP 3 & 11

UNIQUE TO VIKING

REGISTERED CROPS AND USES

- Wheat
- Barley

DISEASES CONTROLLED

Spring wheat, winter wheat, durum wheat

- Rusts (leaf, stem, stripe)
- Septoria leaf blotch
- Tan spot

Barley

- Net blotch
- Spot blotch
- Scald
- Rusts (leaf, stem, stripe)
- Septoria leaf blotch
- Powdery mildew

ACTIVE INGREDIENTS

- Pyraclostrobin 250 g/L emulsifiable concentrate (EC)
- Tebuconazole 250 g/L emulsion in water (EW)

APPLICATION RATE AND ACRES TREATED

- **Rates**: 120 mL/acre **VIKING Pyraclostrobin Fungicide** + 150 mL/acre **VIKING Tebuconazole Fungicide**
- **Acres treated**:
  Case: 80 acres
  Bulk: 640 acres

PACKAGE SIZE

- **Case:** 12 L jug **VIKING Pyraclostrobin Fungicide +** 12.8 L jug **VIKING Tebuconazole Fungicide**
- Bulk: 96 L tote **VIKING Pyraclostrobin Fungicide +** 102 L tote **VIKING Tebuconazole Fungicide**

WATER VOLUME

- **Ground**: Minimum 10 US gallons/acre (40L/acre)
- **Aerial**: Minimum 5 US gallons/acre (20L/acre)

SURFACTANT

- Not required

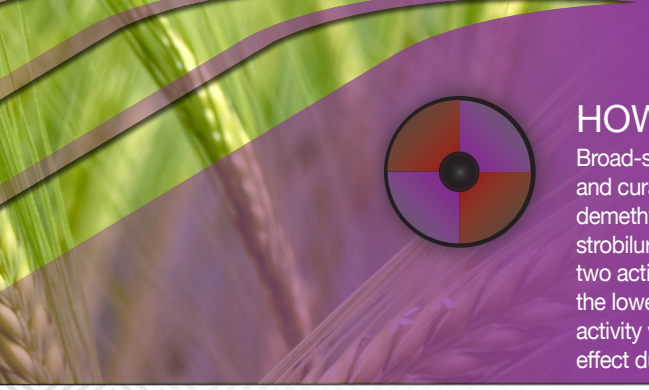
RAINFAST

- 1 hour

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HOW VIKING DROBAK WORKS:

Broad-spectrum fungicide for leaf disease control in wheat and barley with both preventative and curative properties. This product contains two active ingredients; tebuconazole is a triazole demethylation inhibitor (DMI) fungicide with systemic broad-spectrum activity, and pyraclostrobin is a strobilurin fungicide with broad spectrum contact and systemic activity. When the combination of the two actives is applied to the top surface of the leaf it binds tightly in the waxy cuticle and moves to the lower leaf surface where it provides dual-sided protection against disease entry due to systemic activity within the leaf. It has a protective effect because it inhibits spore germination and a curative effect due to the inhibition of the mycelial growth and sporulation of the fungus on the leaf surface.

APPLICATION TIMING:

- Apply at the first sign or very early stage of disease, especially if weather conditions are conducive to disease.

CROP ROTATIONS:

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*:

- None

GRAZING RESTRICTIONS:

- Crops may be grazed or fed to livestock 6 days after application.

PREHARVEST INTERVAL:

- Mature crop may be harvested 36 days after application.

STORAGE:

- Store this product away from food or feed. Store in a cool, dry place. Do not freeze. Store in original container and out of the reach of children, preferably in a locked storage area.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required amount of any tank mix partners, if required.
3. Add the required amount of **VIKING Pyraclostrobin Fungicide**.
4. Add required amount of **VIKING Tebuconazole Fungicide**, complete filling the tank, and apply.
5. If application is stopped prior to completion, resuspend spray solution by full agitation prior to commencing spraying again.
6. Clean out sprayer equipment thoroughly after application is complete.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Always Consult provincial disease risk maps to understand risk for your area before application. **VIKING Drobak Fungicide** has preventative and curative properties and works best if applied early at the onset of disease. Good spray coverage is critical for effective disease control; use higher water volumes with dense crop canopies. Apply this product only once per crop season. If disease persists or weather conditions are favourable to disease, apply another fungicide product with a different mode of action 10-14 days later. Avoid applying products consecutively containing the same fungicide groups to reduce the risk of resistant forms of disease. For best disease control, use **VIKING Drobak Fungicide** as part of an integrated disease management approach including resistant seed varieties, crop rotation, and other management practices. Do not apply **VIKING Drobak Fungicide** when the crop is flowering. Applications of fungicides from the strobi class are thought to increase the risk of fusarium head blight if applied during flowering.

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VIKING™ PROPICONAZOLE

Fungicide

Ferocious™, proven and affordable control of key diseases with preventative and systemic fungicide activity plus tank mix options with herbicides, insecticides, and foliar fertilizers in many different crops.

GROUP 3

REPLACES: Tilt®

REGISTERED CROPS AND USES

- Spring wheat
- Winter wheat
- Durum wheat
- Barley
- Oats
- Canary seed
- Canola
- Corn
- Dry beans
- Lentils
- Field peas
- Soybeans
- Timothy
- Cranberries
- Kentucky bluegrass (seed production)
- Blueberries (low and high bush)
- Rutabagas
- Saskatoon berry
- Stone fruit
- Plums
- Sour cherries
- Western red cedar
- Asparagus
- Strawberries
- Chickpeas

DISEASES CONTROLLED

Wheat	
Septoria leaf spot and glume blotch, powdery mildew, leaf and stem rust, tan spot, stipe rust	200 mL/acre
Barley	
Net blotch, spot blotch, scald, powdery mildew, septoria leaf spot, leaf and stem rust	200 mL/acre
Oats	
Septoria leaf blotch, crown rust	200 mL/acre
Canary seed	
Septoria leaf mottle	200 mL/acre
Timothy	
Purple eyespot	200 mL/acre
Canola	
Blackleg	200 mL/acre

Corn	
Rusts, eye spot, grey leaf spot	200 mL/acre
Northern corn leaf blight, Southern corn leaf blight, helminthosporium leaf spot	100-200 mL/acre
Soybeans	
Asian (soybean) rust	200-300 mL/acre
Powdery mildew, cercospora leaf spot	200 mL/acre
Dry beans, lentils, field pea	
Asian (soybean) rust	200-300 mL/acre
Powdery mildew	200 mL/acre

* use higher rates when conditions are conducive to heavy disease pressure.

ACTIVE INGREDIENT

- Propiconazole 250 g/L emulsifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED

- Application rate and acres treated depends on crop and disease. See Diseases Controlled section or product label for application rate by crop and disease.

PACKAGE SIZE

- **Case**: 2 x 8.1 L (acres treated depends on application rate)
- **Bulk**: 97 Litre drum

WATER VOLUME

- **Ground**: Minimum 20 US gallons/acre (80 L/acre)
- **Aerial**: Minimum 4 US gallons/acre (16 L/acre)
- User higher water volumes with thicker crop canopies

SURFACTANT

- Not required

RAINFAST

- 1 hour

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HOW VIKING PROPICONAZOLE WORKS:

The active ingredient propiconazole is a triazole fungicide with broad spectrum systemic activity. After application the product is transported upwards in plants. It has both preventative and curative activity, with length of control varying from 3-4 weeks depending on disease, crop, and environmental conditions.

CROP STAGING

- Apply product at the first sign of disease. A second application at 14 days interval may be needed if conditions persist.

CROP ROTATIONS

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **VIKING Clodinafop Herbicide, VIKING Fenoxaprop Herbicide, VIKING Flucarbazone Herbicide, VIKING Bodo Herbicide, VIKING Brevik Heribicide, VIKING Clopyralid Herbicide, VIKING Clethodim Herbicide, VIKING Drammen Herbicide, VIKING 540 Glyphosate Herbicide, VIKING Glufosinate 150 Herbicide, VIKING Glufosinate 200 Herbicide, VIKING Hamar Herbicide, VIKING Lidingo Herbicide, VIKING Navik Herbicide, VIKING Pinoxaden 50 Herbicide, VIKING Quizalofop Herbicide, VIKING Stavanger Herbicide, VIKING 2,4-D Ester 700 Herbicide, VIKING MPCA Ester 600 Herbicide, VIKING Azoxystrobin Herbicide**, Matador®, Pardner®

GRAZING RESTRICTIONS

- Animals may be grazed on treated crops three days after application..

PREHARVEST INTERVAL

- **Wheat, barley, oats:** 45 days
- **Canola**: 60 days
- **Corn, timothy**: 14 days
- **Soybeans, peas, lentils, dry beans**: 30 days
- See product label for complete list of preharvest intervals by crop

STORAGE

- To prevent contamination, store this product away from food or feed. Do not freeze.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required amount of any tank mix partners, if required.
3. Add required amount of **VIKING Propiconazole Fungicide** to the tank, complete filling the tank, and apply.
4. If application is stopped prior to completion, resuspend spray solution by full agitation prior to commencing spraying again.
5. Clean out sprayer equipment thoroughly after application is complete.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Consult the product label for uses, application rates and water volumes for all crops and diseases. Good coverage is critical for effective disease control. Use higher water volumes with denser crop canopies; reduction in water volume can reduce control. **VIKING Propiconazole Fungicide** is preventative in nature; the best disease control will be achieved when applied prior to disease establishment. **VIKING Propiconazole Fungicide** lasts about three weeks in the plant; ff conditions favourable to disease continue after this length of time, another application will be necessary to maintain control. Use **VIKING Propiconazole Fungicide** as part of an integrated disease management strategy, including resistant crop varieties, crop rotation, and plant residue management. Rotate fungicide groups whenever possible to prevent resistance. Do not exceed 2 applications of products containing propiconazole per season.

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VIKING™ PROTHIOCONAZOLE

Fungicide

Ferocious™, proven and effective control of sclerotinia stem rot and many different diseases in other crops plus systemic activity, pre and post infection activity on multiple diseases, high concentration formulation for efficient application, and bulk packaging options in many different crops.

GROUP 3

REPLACES: Proline®

REGISTERED CROPS AND USES

- Canola
- Wheat (spring, durum and winter)
- Barley
- Oat
- Flax
- Chickpeas
- Lentil
- Soybean
- Corn
- Sunflower

DISEASES CONTROLLED

Canola	
Sclerotinia stem rot	128–149 mL/ac
Wheat	
Tan spot, leaf rust, speckled leaf blotch	85–128 mL/ac
Fusarium (suppression only)	128 – 170 mL/ac
Barley	
Net blotch, scald, spot blotch	85–128 mL/ac
Fusarium (suppression only)	128 – 170 mL/ac
Oats	
Crown rust	128 mL/ac
Chickpea	
Ascochyta blight	128 – 170 mL/ac
Grey mold (suppression)	170 mL/acre

Lentils Control:	
Ascochyta blight, white mold	128–170 mL/ac
Lentils	
Anthracnose (suppression)	130–170 mL/ac
Grey mold (suppression)	170 mL/ac
Soybeans	
Asian soybean rust, frogeye leaf spot	85 mL/acre
Corn	
Rusts, eyespot, northern blight	170 mL/acre
Grey leaf spot	170 mL/acre
Fusarium, gibberella ear rots (suppression)	170 mL/acre

* use higher rates when conditions are conducive to heavy disease pressure.

ACTIVE INGREDIENT

- Prothioconazole 480 g/L emulsifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED

- application rate is crop and disease specific - see “Diseases Controlled” section for rate by crop.

PACKAGE SIZE

- **Case**: 2 x 10 L jugs
- **Bulk**: 120 L drum

WATER VOLUME*

- See label for instructions by crop and disease.
- **Ground**: Minimum 10 US gallons/acre (40 L/acre)
- **Aerial**: Minimum 5 US gallons/acre (20 L/acre)

*use higher rates for thicker crop canopies.

SURFACTANT

- Not required

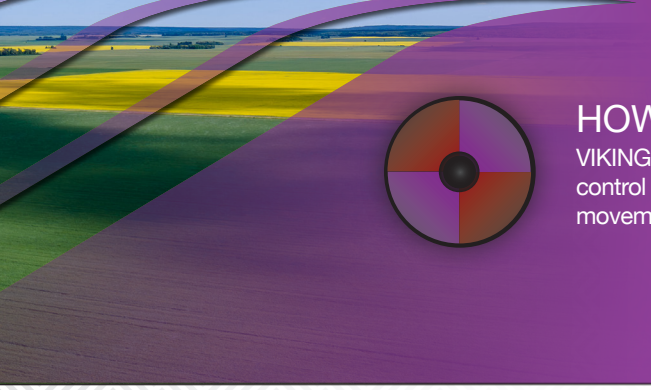
RAINFAST

- 1 hour

Ferocious™ Protection for Canada’s Crops.

VIKING

vikingcropproduction.com



HOW VIKING PROTHIOCONAZOLE WORKS:

VIKING Prothioconazole Fungicide is a broad spectrum, systemic fungicide for the control or suppression of listed diseases on registered crops with excellent systemic movement in the plant.

CROP STAGING

- **Canola**:
  Sclerotinia: Apply when the crop is in the 20-30% bloom stage.
- **Wheat, barley, oats**
  Fusarium in wheat: within the time-period when 75% of wheat heads are fully emerged to when 50% of heads on the main stems are in flower. This timing will also control the listed leaf diseases.
  Fusarium in barley: apply between 70% and 100% full head emergence on the main stem up until 3 days after full head emergence. This timing will also control the listed leaf diseases.
  Leaf diseases: Apply as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems.
- **Pulse Crops**: Apply when first symptoms of disease can be found or when the risk of infection is imminent.
- **Corn**:
  Leaf diseases: Apply as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems.
  Fusarium: Apply from the development stage of corn from when the tip of stigmata is visible until stigmata drying.

CROP ROTATIONS

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- **None**

GRAZING RESTRICTIONS

- Do not graze the treated crop or feed to livestock

PREHARVEST INTERVAL

- **Wheat, barley, oat**: 30 days after application
- **Canola**: 36 days after application
- **Corn**: 14 days after application
- **Chickpea, lentil**: 7 days after application
- **Soybeans**: 20 days after application
- See label for complete list of preharvest intervals by crop.

STORAGE

- Store this product away from food or feed in a cool, dry, locked, well-ventilated area without a floor drain. Do not freeze.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required amount of **VIKING Prothioconazole Fungicide** and finish filling the tank with water.
3. Maintain agitation throughout mixing and spraying.
4. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.
5. Clean out sprayer equipment thoroughly after application is complete.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Consult the product label for uses, application rates and water volumes for all crops and diseases. Good coverage is critical for effective disease control – use higher water volumes for dense canopies and higher disease pressure. Always consult the product label for application rates and water volumes for all crops and diseases. Fusarium head blight risk is greater when the weather is warm and wet at the flowering to soft dough stages. Consult the provincial disease risk maps for disease risk in your area. For fusarium head blight, ensure thorough coverage of all wheat heads for optimal suppression. Improved spray coverage of heads may be achieved by using nozzles designed to spray in two directions. Do not apply **VIKING Prothioconazole Fungicide** more than twice per crop season.

Always read and follow all label precautions and directions.
*When applying tank mix combinations, always follow all label requirements for each product including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

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VIKING™ PYRACLOSTROBIN

Fungicide

Ferocious™, proven and affordable control of key diseases with both protective and curative properties that improves plant health and delivers wall to wall coverage against foliar diseases in multiple crops, particularly pulse crops.

GROUP 11

REPLACES: Headline®

REGISTERED CROPS AND USES

- Wheat
- Barley
- Rye
- Corn
- Dry beans
- Faba beans
- Field peas
- Lentils
- Chickpeas
- Soybeans
- Potatoes
- Sugar beets
- Alfalfa (for seed production)
- Grasses (blue grasses, fescues and ryegrasses for seed production)

DISEASES CONTROLLED

See label for complete list of diseases controlled.

Wheat	
Tan spot, Septoria leaf blotch and leaf rust	120-240 mL/ac
Powdery mildew, spot blotch, and stripe rust	160-240 mL/ac
Barley	
Net blotch	120-240 mL/ac
Scald, spot blotch, and stripe rust	160-240 mL/ac
Glyphosate-tolerant & conventional corn	
Common rust and gray leaf spot	160-240 mL/ac
Dry beans	
Anthracnose, mycosphaerella blight, powdery mildew, and rust	160-240 mL/ac
Faba beans	
Mycosphaerella blight and powdery mildew	160-240 mL/ac
Field peas	
Mycosphaerella blight and powdery mildew	160 mL/ac
Downy mildew	160-240 mL/ac
Chickpeas	
Ascochyta blight	160 mL/ac
Lentils	
Anthracnose and Ascochyta blight	160 mL/ac
Glyphosate-tolerant & conventional soybeans	
Asian soybean rust and frog eye leaf spot	160 mL/ac
Potatoes	
Early blight and late blight	180-267 mL/ac
Sugar beets	
Cercospora leaf spot and powdery mildew	268-360 mL/ac

* Use the higher rate and shorter interval when disease pressure is high.

ACTIVE INGREDIENT

- Pyraclostrobin 250 g/L emulsifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED

- Application rate and acres treated depends on crop and disease. See Diseases Controlled section below or product label for application rate by crop and disease.

PACKAGE SIZE

- **Case**: 2 x 13 L
- **Bulk**: 120 L drum, 1,000 L tote

WATER VOLUME*

- **Ground**: Minimum 10 US gallons/acre (40 L/acre), except potatoes and sugar beets minimum 20 US gallons/acre (80 L/acre)
- **Aerial**: Minimum 5 US gallons/acre (20 L/acre

*use higher water volumes for thicker crop canopies.

SURFACTANT

- Not required

RAINFAST

- 1 hour



HOW VIKING PYRACLOSTROBIN WORKS:

The active ingredient pyraclostrobin is a strobilurin fungicide with broad spectrum contact and systemic activity. When product is applied to the top surface of the leaf it binds tightly in the waxy cuticle and moves to the lower leaf surface where it provides dual-sided protection against disease entry due to systemic activity within the leaf. It has a protective effect because it inhibits spore germination and a curative effect due to the inhibition of the mycelial growth and sporulation of the fungus on the leaf surface.

CROP STAGING

- Apply product at the first sign of disease. A second application at 14 days interval may be needed if conditions persist.

CROP ROTATIONS

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- None.

GRAZING RESTRICTIONS

- Do not feed alfalfa hay or forage to livestock. All other crops can be grazed or fed to livestock.
- Corn crops may be grazed 6 days after last application.

PREHARVEST INTERVAL

- **Canola**: 21 days after application
- **Corn**: 7 days after application
- **Flax and soybeans**: 21 days after application
- **Dry beans, faba beans, field peas and lentils**: 30 days after application

STORAGE

- Do not ship or store near food, feed, seed and fertilizers. Protect from freezing. Store in cool, dry, locked, well-ventilated area without floor drain.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required amount of any tank mix partner if needed.
3. Add required amount of **VIKING Pyraclostrobin Fungicide** to the tank, finish filling the tank with water, and apply product.
4. If application is stopped prior to completion, resuspend spray solution by full agitation prior to commencing spraying again.
5. Clean out sprayer equipment thoroughly after application is complete.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Consult the product label for complete information on uses, application rates and water volumes for all crops and diseases. Product works best if applied prior to, or at the onset of disease, and as part of a regularly scheduled protective spray program. Good coverage is essential for effective disease control, control can be improved by using higher water volumes with denser crop canopies. DO NOT apply to cereals that have started heading out – later application is thought to increase incidence of fusarium head blight in wheat and barley. DO NOT apply product more than once per season; if second application of fungicide is required switch to a fungicide with a different mode of action.

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VIKING™ TEBUCONAZOLE

Fungicide

Ferocious™, powerful, proven control of leaf diseases in cereal crops and soybeans with preventative and curative fungicide activity, flexible application timing for leaf diseases, plus suppression of Fusarium head blight (FHB) in wheat.

GROUP 3

REPLACES: Folicur®

REGISTERED CROPS AND USES

- Wheat
- Barley
- Oats
- Soybean

DISEASES CONTROLLED

See label for complete list of diseases controlled.

Spring wheat, winter wheat, durum wheat	
Controlled	
Septoria glume blotch	202 mL/acre
Rusts (leaf, stem, stripe)	153-202 mL/acre
Septoria leaf blotch	153-202 mL/acre
Tan spot	153-202 mL/acre
Powdery mildew	202 mL/acre
Suppressed	
Fusarium head blight	202 mL/acre

Barley	
Controlled	
Net blotch	153-202 mL/acre
Spot blotch	153-202 mL/acre
Scald	153-202 mL/acre
Rusts (leaf, stem, stripe)	153-202 mL/acre
Septoria leaf blotch	153-202 mL/acre
Powdery mildew	153-202 mL/acre

Oats	
Controlled	
Crown rust	153 mL/acre
Stem rust	153 mL/acre
Stagnospora leaf blotch and black stem	153-202 mL/acre
Phaeosphaeria avenaria f. sp avenaria	153-202 mL/acre

Soybeans	
Controlled	
Asian soybean rust	153-202 mL/acre
Frogeye leaf spot	153-202 mL/acre
Suppressed	
Powdery mildew	153-202 mL/acre

* use higher rates when conditions are conducive to heavy disease development.

ACTIVE INGREDIENT

- Tebuconazole 250 g/L emulsion in water (EW)

APPLICATION RATE AND ACRES TREATED

- Application rate and acres treated depends on crop and disease. See Diseases Controlled section or product label for application rate by crop and disease.

PACKAGE SIZE

- **Case**: 2 x 8.1 L (acres treated depends on application rate)
- **Bulk**: 100 L drum, 1,000 L tote

WATER VOLUME

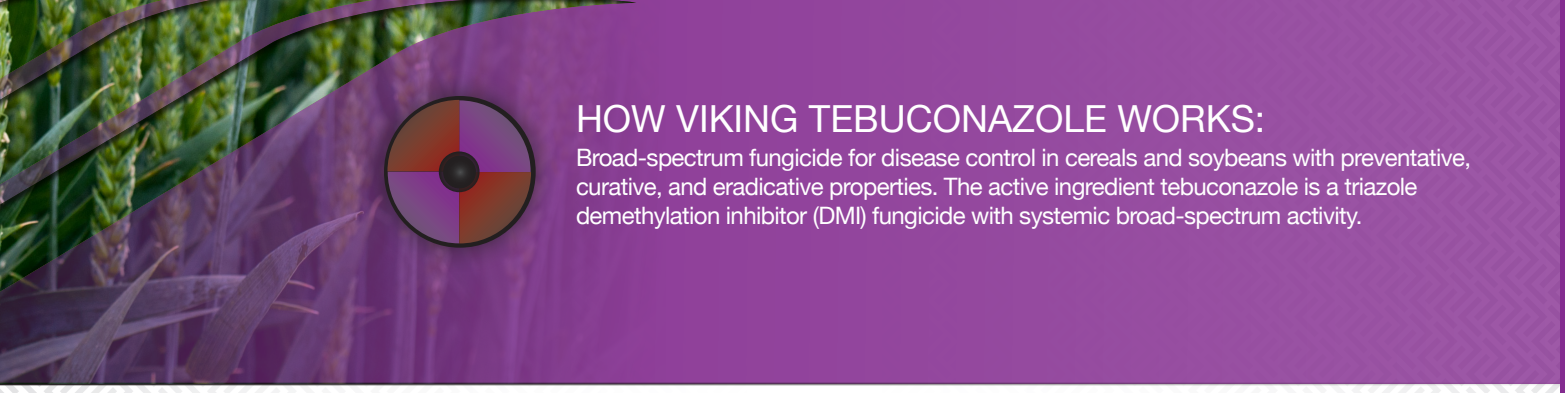
- **Ground**: Minimum 10 US gallons/acre (40L/acre)
- **Aerial**: Minimum 5 US gallons/acre (20 L/acre)
- Use higher water volumes for thicker crop canopies.

SURFACTANT

- Not required

RAINFAST

- 1 hour



HOW VIKING TEBUCONAZOLE WORKS:

Broad-spectrum fungicide for disease control in cereals and soybeans with preventative, curative, and eradicative properties. The active ingredient tebuconazole is a triazole demethylation inhibitor (DMI) fungicide with systemic broad-spectrum activity.

CROP STAGING

- **Wheat**
  Fusarium head blight, Septoria glume blotch: within the time period when 75% of wheat heads are fully emerged to when 50% of heads on the main stem are in flower.
  Rusts, Septoria, tan spot, powdery mildew: at the first sign or very early stage of disease, especially if weather conditions are conducive to disease development, up to the end of flowering stage.
- **Barley, oats**
  Net blotch, spot blotch, scald, rusts, Septoria, powdery mildew: apply at the very early signs of disease development.
- **Soybeans**
  Asian soybean rust, frogeye leaf spot, powdery mildew: apply when the first symptoms of disease can be found or when the risk of infection is imminent.

CROP ROTATIONS

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- None

GRAZING RESTRICTIONS

- Animals may be grazed on treated crops 6 days after application.

PREHARVEST INTERVAL

- **Wheat, barley, oats**: 36 days after application
- **Soybeans**: 20 days after application
- See product label for complete list of preharvest intervals by crop.

STORAGE

- Store this product away from food or feed. Store in a cool, dry place. Store in original container and out of the reach of children, preferably in a locked storage area.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required amount of any tank mix partners, if required.
3. Add required amount of **VIKING Tebuconazole Fungicide** to the tank, complete filling the tank, and apply.
4. If application is stopped prior to completion, resuspend spray solution by full agitation prior to commencing spraying again.
5. Clean out sprayer equipment thoroughly after application is complete.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Consult the product label for uses, application rates and water volumes for all crops and diseases. Fusarium head blight risk is greater when the weather is warm and wet at the flowering to soft dough stages. Consult the provincial disease risk maps to understand risk for your area before application. **VIKING Tebuconazole Fungicide** has preventative and curative properties and works best if applied early at the onset of disease. Good spray coverage is critical for effective disease control; use higher water volumes with dense crop canopies. Where a rate range is specified, use the higher rate when weather conditions are conducive to heavy disease development. For suppression of fusarium head blight, ensure optimum application timing and thorough coverage of all wheat heads for optimal suppression. Improved spray coverage of heads may be achieved by using nozzles designed to spray in two directions. DO NOT apply product more than once per season; if a second fungicide application is required switch to a fungicide with a different mode of action.

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VIKING™ TROMSO

Fungicide

Ferocious™, effective, and proven broad-spectrum control of cereal leaf diseases and suppression of fusarium head blight with multiple modes of action in spring wheat, durum wheat, winter wheat & barley.

GROUP 3

REPLACES: Prosaro®

REGISTERED CROPS AND USES

- Spring wheat
- Durum wheat
- Winter wheat
- Barley

DISEASES CONTROLLED

Spring Wheat, Durum & Winter Wheat

Rusts (leaf, stem & stripe)
Septoria (leaf and glume blotches)
Tan spot
Powdery mildew

Barley

Rusts (leaf, stem & Stripe)
Septoria (Net, Leaf & Spot Blotch)
Scald
Powdery Mildew

DISEASES SUPRESSED

Spring, Durum, Winter Wheat & Barley

Fusarium Head Blight

ACTIVE INGREDIENT

- Prothioconazole 125 g/L (EC) + Tebuconazole 125 g/L (EC)

APPLICATION RATE AND ACRES TREATED

- **Application rate**: 325 mL/acre
- **Acres Treated:**
  Case: 80 acres
  Bulk: 104 L drum: 320 acres
  Bulk: 625 L tote: 1920 acres

PACKAGE SIZE

- **Case**: 2 x 13 L
- **Bulk**: 104 Litre drum, 625 Litre tote

WATER VOLUME

- **Ground**: Minimum 10 US gallons/acre (40L/acre)
- **Aerial**: Minimum 5 US gallons/acre (20 L/acre)
- Use higher water volumes for thicker crop canopies

SURFACTANT

- Not required

RAINFAST

- 1 hour

Ferocious™ Protection for Canada's Crops.

VIKING
vikingcropproduction.com



HOW VIKING TROMSO WORKS:

The active ingredients prothioconazole and tebuconazole are demethylation inhibitors with broad-spectrum systemic activity. The product combines 2 modes of action for the control or suppression of listed diseases on wheat, barley and oats.

CROP STAGING

Spring wheat, durum wheat, winter wheat
Fusarium head blight: within the time-period when 75% of wheat heads are fully emerged to when 50% of heads on the main stems are in flower. This timing will also control the listed leaf diseases.

- **Barley**
  Fusarium head blight: apply between 70 & 100% full head emergence on the main stem up until 3 days after. This timing will also control the listed leaf diseases.

CROP ROTATIONS

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- None

GRAZING RESTRICTIONS

- Cut hay or harvest forage 5 days after application.

PREHARVEST INTERVAL

- Harvest the mature crop 36 days after application.

STORAGE

- Store tightly closed container away from feeds, seeds, fertilizer, plants and foodstuffs. Keep away from fire or open flame or other sources of heat. Do not store at temperatures below freezing.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required amount of **VIKING Tromso Fungicide** to the water and finish filling the tank with water.
3. Maintain agitation throughout mixing and spraying.
4. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.
5. Clean out sprayer equipment thoroughly after application is complete.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Consult the product label for uses, application rates and water volumes for all crops and diseases. **VIKING Tromso Fungicide** has preventative and curative properties, but best performance will be achieved if applied at the onset of disease. Good coverage is essential for effective disease control; use higher water volumes for denser crop canopies. Pay close attention to application timing; application at head timing can provide both flag leaf protection and head protection. Fusarium head blight risk is greater when the weather is warm and wet at the flowering to soft dough stages. Consult the provincial disease risk maps for risk assessment for your area. For fusarium head blight, ensure thorough coverage of all wheat heads for optimal suppression. Improved spray coverage of heads may be achieved by using nozzles designed to spray in two directions. Do not apply **VIKING Tromso Fungicide** more than once per crop season. If additional applications of fungicide are required, switch to a fungicide with a different mode of action.

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VIKING™ VAASA

Fungicide

Ferocious™, effective, high performance disease control with a unique combination of proven active ingredients that deliver multiple modes of action for resistance management, protective and curative properties for optimum crop health, and premium disease control for use in pulse crops.

GROUP 3 & 11

UNIQUE TO VIKING

REGISTERED CROPS AND USES

- Lentils
- Chickpea
- Soybean

DISEASES CONTROLLED

Lentil

Anthracnose
Ascochyta blight
white mold

Chickpea

Aschochyta blight

Soybean

Frog eye leaf spot
Asian soybean rust

ACTIVE INGREDIENT

- Prothioconazole 480 g/L emulsifiable concentrate (EC)
- Pyraclostrobin 250 g/L emulsifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED

- **Application rate**: 125 mL/acre **VIKING Prothioconazole Fungicide** + 162 mL/acre **VIKING Pyraclostrobin Fungicide**

PACKAGE SIZE

- **Case**: 10 L jug **VIKING Prothioconazole Fungicide** + 13 L jug **VIKING Pyraclostrobin Fungicide**
- **Acres treated:** 80 acres/case

WATER VOLUME

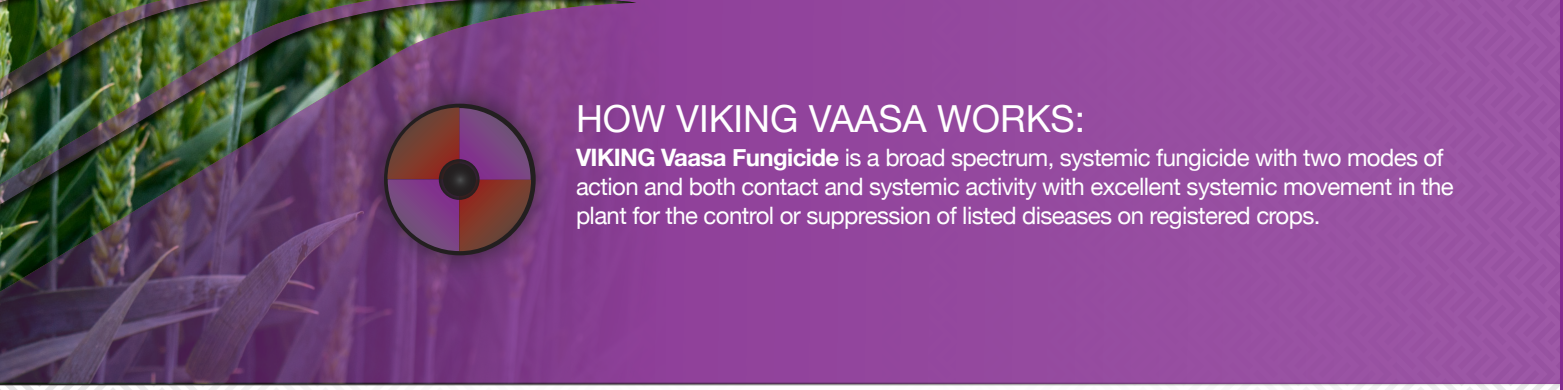
- **Ground**: Minimum 10 US gallons/acre (40 L/acre)
- **Aerial**: Minimum 5 US gallons/acre (20L/acre)

SURFACTANT

- Not required

RAINFAST

- 1 hour



HOW VIKING VAASA WORKS:

VIKING Vaasa Fungicide is a broad spectrum, systemic fungicide with two modes of action and both contact and systemic activity with excellent systemic movement in the plant for the control or suppression of listed diseases on registered crops.

APPLICATION TIMING

- **Lentils:** Apply at the beginning of flowering or the first signs of disease.
- **Chickpea, soybean:** Apply at the first sign of disease.

CROP ROTATIONS

- Grow all major crops the year after application.

REGISTERED AND SUPPORTED TANK MIXES*

- None

GRAZING RESTRICTIONS

- Do not feed hay or threshings or allow livestock to graze in treated areas.

PREHARVEST INTERVAL

- **Lentil, chickpea**: 7 days
- **Soybean**: 20 days
- See product labels for complete listing of pre-harvest interval by crop.

STORAGE

- Store this product away from food or feed in a cool, dry, locked, well-ventilated area without a floor drain. Do not freeze.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required amount of **VIKING Prothioconazole Fungicide**.
3. Add the required amount of **VIKING Pyraclostrobin Fungicide** and finish filling the tank with water.
4. Maintain agitation throughout mixing and spraying.
5. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.
6. Clean out sprayer equipment thoroughly after application is complete.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Consult the product labels for uses, application rates and water volumes for all crops and diseases. Good coverage is critical for effective disease control – use higher water volumes for dense canopies and higher disease pressure. Good coverage is essential for effective disease control. Use higher water volumes for thicker crop canopies or higher disease pressure. **VIKING Vaasa Fungicide** will work best if applied prior to, or at the onset of disease. Use **VIKING Vaasa Fungicide** as part of an integrated disease management strategy including resistant crop varieties, crop rotation, and plant residue management. Rotate fungicide groups whenever possible to prevent resistance. Do not apply **VIKING Vaasa Fungicide** more than twice per crop season.

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VIKING™ DIQUAT

Desiccant

Ferocious™, fast-acting and effective crop drydown performance for a faster easier harvest in multiple crops.

GROUP 22

REPLACES: Reglone®

REGISTERED CROPS AND USES

Crop	Ground Application	Aerial Application
Canola†*	0.5-0.69	0.69-0.93
Dry Bean	0.5-0.69	0.69-0.93
Adzuki bean	0.5-0.69	0.69-0.93
Soybean	0.5-0.69	0.69-0.93
Fababean	0.5-0.69	0.69-0.93
Flax	0.5-0.69	0.69-0.93
Lentil	0.5-0.69	0.69-0.93
Lupin	0.93	N/A
Mustard	0.5-0.69	0.69-0.93
Pea	0.5-0.69	0.69-0.93
Sunflower	0.5-0.69	0.69-0.93
Chickpeas†	0.5-0.69	0.69-1.09
Alfalfa, clover (seed production)	0.69-1.09	0.69-1.09

NOTE: Higher rates must be used with heavy crop stands, weedy crops, or heavy vine regrowth.
† Use high rates for dense crops and/or heavy weed infestations. High rates are recommended in canola and chickpeas.
* This product can cause shattering losses in non-shatter resistant canola.

ACTIVE INGREDIENT

- Diquat 240 g/L emulsifiable concentrate (EC)

APPLICATION RATE AND ACRES TREATED

- See Registered crop and rates section or product label for registered application rates by crop.

PACKAGE SIZE

- **Case**: 2 X 10 L jugs
- **Bulk**: 115 L drum
- **Bulk**: 500 L tote
- **Bulk**: 1,000 L tote

WATER VOLUME

- **Ground**: 20-40 US gallons/acre (90-180 L/acre)
- **Aerial**: minimum 4.5 US gallons/acre (18 L/acre)

SURFACTANT

- Agral® 90 at 1 L per 1,000 L water

RAINFAST

- 1 hour



HOW VIKING DIQUAT WORKS:

The active ingredient diquat is a photosystem I inhibitor (group 22) herbicide which is absorbed by all leaf and stem surfaces. It is non-systemic, fast-acting, contact herbicide desiccant which interferes with photosynthesis resulting in plant death shortly after application.

APPLICATION TIMING

- **Canola**: 80-90% seed color change; harvest in 7-10 days, no later than 14 days
- **Dry Beans**: 80-90% of leaves defoliated & 80% of pods are yellow.
- **Soybeans**: 80-90% of leaves & 80% of pods are yellow
- **Faba beans**: most plants ripe & dry; bottom pods are tan or black; wait 4-7 days to harvest.
- **Flax**: 75% of bolls brown; harvest when sample tests dry
- **Lentils**: Lowest pods are light brown & rattle when shaken; wait 4-7 days to harvest
- **Mustard**: 75% of seed has turned color; harvest in 7-10 days, maximum 14 days
- **Peas**: bottom pods are ripe & dry; seeds detached from pods; harvest when sample tests dry
- **Lupins**: pods are brown and internal seed is yellow when cut.
- **Sunflowers**: backs of the heads & bracts are turning yellow and seed moisture is 20-50%; wait 15-20 days to harvest
- **Chickpeas**: plants yellow, pods mature, seeds changed colour & detached from pods
- **Alfalfa, Red & White Clover**: pods are ripe but before shattering; must harvest within 7 days.

CROP ROTATIONS

- Grow all major crops the year after application

REGISTERED AND SUPPORTED TANK MIXES*

- None

GRAZING RESTRICTIONS

- Crop waste remaining after harvest (i.e. pea or alfalfa stems) can be fed to livestock

PREHARVEST INTERVAL

- See label for pre-harvest restrictions by crop

STORAGE

- Store this product away from food or feed in original container. Store above 0o C. If crystallization occurs because of storage below freezing, warm to room temperature and agitate gently until reconstituted.

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required amount of **VIKING Diquat Herbicide**.
3. Add the required amount of surfactant.
4. Complete filling of sprayer and apply.
5. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

Product degrades in sunlight – the best time to apply is evening or before periods of darkness, or on cloudy days. Use high water volumes as directed and increase water volume with thick crop canopy. Typical symptoms include wilting, interveinal discoloration within hours of application, followed by leaf-edge blackening in some species, and complete browning of top growth. Complete desiccation can take from 4 – 14 days depending on the crop and weather conditions. Drought stress or late season moisture can reduce product performance.

Application timing is critical - if product is applied too early crop quality can be impacted.

Regular canola can shatter easily if harvest is delayed, pod shatter tolerant varieties will have less shattering. Adverse weather after application (heavy rains, wind, hail) may increase crop damage and loss.

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VIKING™ 540 GLYPHOSATE

Herbicide

Ferocious™, affordable potassium salt 540-gram formulation glyphosate choice.

GROUP 9

REPLACES: Glyphosate 540®

REGISTERED CROPS AND USES

- Pre-seed
- Summerfallow
- Pre-harvest and post-harvest applications
- Registered glyphosate tolerant crops
- Non-crop and industrial uses

WEEDS CONTROLLED

- Same weeds controlled as Roundup®
- See product label for a complete list of weeds controlled.

ACTIVE INGREDIENT

- Glyphosate 540 g/L soluble concentrate (SC) present as potassium salt

APPLICATION RATE AND ACRES TREATED

- See product label for application rates.

PACKAGE SIZE

- 500 L tote
- 1000 L tote

WATER VOLUME

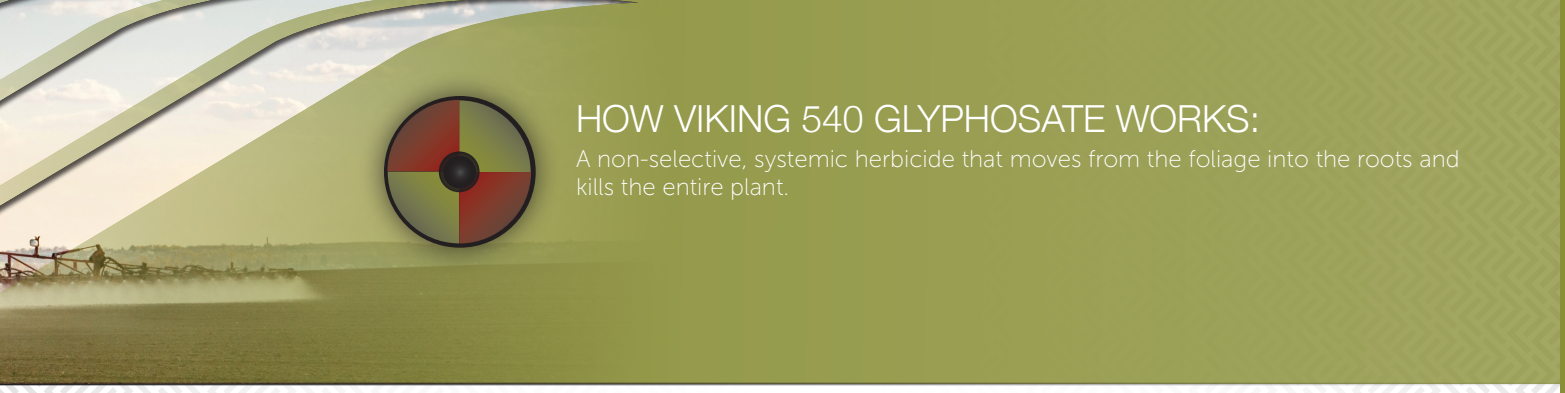
Required water volume is crop and use specific. See product label for requirements

SURFACTANT

- Not required for most uses.
- Some uses required the addition of 350 mL/acre of a surfactant registered for use such as Agral® 90 or Ag-Surf®. See product label for details.

RAINFAST

- 1 hour



HOW VIKING 540 GLYPHOSATE WORKS:

A non-selective, systemic herbicide that moves from the foliage into the roots and kills the entire plant.

CROP STAGING

Crop	Stage
Glyphosate tolerant canola:	Cotyledon to 6 leaf
Glyphosate tolerant soybeans:	First trifoliate to flowering
Glyphosate tolerant corn:	Up to 8 leaves
Pre-seed, summerfallow, pre-harvest post-harvest	See label for use

CROP ROTATIONS

- Grow all major crops the year after application

REGISTERED AND SUPPORTED TANK MIXES*

- Tank mixes are crop and use specific. See product label for tank mix recommendations

GRAZING RESTRICTIONS

- All portions of treated crops may be fed to livestock.

PREHARVEST AND GRAZING INTERVAL IN DAYS

- No preharvest interval is indicated

STORAGE

- Store this product away from food or feed. Heated storage is not required. If product is frozen warm to room temperature and agitate before use. Avoid contamination of seed, feed, and foodstuffs

* When applying tank mix combinations, always follow all label requirements for each product, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required amount of dry, soluble concentrate, or liquid tank mix partner products.
3. Add the required amount of **VIKING 540 Glyphosate Herbicide**.
4. Add the required amount of surfactant if needed and apply.
5. Always Refer to tank mix partner labels for specific tank mix requirements.

Always read and follow all label precautions and directions.

PERFORMANCE TIPS

For best performance apply during warm moist growing conditions when temperatures are between 12°C and 24° C. Wilting and yellowing of annual weeds will occur within 2-4 days, perennials will require 7-10 days or longer, and full control may take 3-4 weeks depending on growing conditions. Control may be slowed or reduced under cool, wet cloudy conditions or if plants are stressed by drought, frost, or other stress conditions. Dirty water, hard water, water with suspended soil or organic matter or water containing calcium (Ca+), magnesium (Mg+), or iron (Fe+) ions will reduce control.

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VIKING™

ADJUVANTS



VIKING™ ADJUVANTS

VIKING PHC

REPLACES: MERGE®

A blend of surfactants with petroleum hydrocarbons for use with various herbicides.

ACTIVE INGREDIENTS:

50% surfactant blend + 50% solvent

VIKING PHOSPHATE ESTER

REPLACES: AMIGO®

For use the post-emergence herbicide **Viking Clethodim Herbicide**

ACTIVE INGREDIENTS:

Polyoxyalkylated alkyl phosphate ester

VIKING CROP OIL CONCENTRATE

REPLACES: SCORE®

VIKING Crop Oil Concentrate is a non-ionic blend of surfactants and highly refined paraffinic crop oil designed to optimize the performance of **VIKING Clodinafop Herbicide** on Spring Wheat and Durum Wheat.

ACTIVE INGREDIENTS:

Paraffin base petroleum oil with a Surfactant blend

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VIKING™

2024 CROP PRODUCTION GUIDE

Ferocious™ Protection for Canada's Crops

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