

2022-1565
2023-07-28

(Sleeve)

GROUP	4	14	HERBICIDES
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BlackHawk® EVO Herbicide

Emulsifiable Concentrate

COMMERCIAL

FOR CONTROL OF EMERGED BROADLEAF WEEDS PRIOR TO THE EMERGENCE OF WHEAT (SPRING, DURUM, WINTER), BARLEY, OATS, RYE (SPRING, FALL), TRITICALE, FIELD CORN, ANNUAL CANARY GRASS, SUMMERFALLOW, AND FOR POST- HARVEST/FALL BURN-DOWN WEED CONTROL.

ACTIVE INGREDIENT:

Pyraflufen-ethyl ... 7.3 g/L (a.i.)
Dichlorprop-P as 2-ethylhexyl ester ... 284 g/L (a.e.)
2,4-D, present as 2-ethylhexyl ester ... 284 g/L (a.e.)

Warning, contains the allergen soy

READ THE LABEL AND BOOKLET BEFORE USING



WARNING – POISON
EYE IRRITANT
POTENTIAL SKIN SENSITIZER

REGISTRATION NO.: 34904 PEST CONTROL PRODUCTS ACT

Net Contents: (0.5 – Bulk) Litres

Nufarm Agriculture Inc.
5101, 333 – 96th Ave NE
Calgary, Alberta T3K 0S3
1-800-868-5444

24-Hour Emergency Response Number 1-800-424-9300

PRECAUTIONS:**KEEP OUT OF REACH OF CHILDREN.**

May be fatal if swallowed. May irritate eyes. Potential skin sensitizer. Avoid contact with skin, eyes and clothing. Wash concentrate from skin or eyes immediately.

Avoid breathing spray mist. After use wash hands and other exposed skin.

DO NOT APPLY BY AIR.

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

PROTECTIVE CLOTHING AND EQUIPMENT:

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

Wash well after handling and before eating, drinking or smoking or using the bathroom. Remove contaminated clothing immediately after use. Wash contaminated clothing with soap and hot water, separately from household clothing, before reuse. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

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

FIRST AID:

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

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

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

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

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

TOXICOLOGICAL INFORMATION:

Treat symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. No specific antidote. Employ supportive care. This product may cause mild irritation to the eyes.

Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness or nausea.

ENVIRONMENTAL PRECAUTIONS:

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE. Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

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

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

This product contains an active ingredient and aromatic petroleum distillates, which are toxic to aquatic organisms.

The residues of pyraflufen-ethyl are persistent and may carryover. It is recommended that this product not be used in areas treated with any products containing pyraflufen-ethyl during the previous season.

EMERGENCY TELEPHONE NUMBERS:

For spills or transportation accidents, Chemtrec, 1-800-424-9300.

For health or environmental emergencies, ProPharma Group, 1-877-325-1840.

For product and use information, Nufarm Agriculture Inc., 1-800-868-5444.

STORAGE:

Store this product away from food or feed. Store in a cool, well ventilated area and out of the reach of children and animals.

Do not allow to freeze.

Keep unused product in original container tightly closed.

DISPOSAL:

For Recyclable Containers:

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

Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsing to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

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For Returnable-Refillable Containers:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

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

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *PEST CONTROL PRODUCTS ACT* to use this product in a way that is inconsistent with the directions on the label.

BlackHawk EVO® is a registered trademark of Nufarm Agriculture Inc.

(Booklet)

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NOTICE TO USER:

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DIRECTIONS FOR USE

BlackHawk EVO Herbicide is designed for use as a contact and systemic herbicide for broadleaf weed control. **BlackHawk EVO Herbicide** will damage emerged crop plants, even in minute quantities.

Apply **BlackHawk EVO Herbicide** prior to the emergence of the crop, either as a pre-seeding or post-seeding application. Only weeds that have emerged at the time of application will be controlled. Apply when weeds are in the seedling stage and actively growing.

Pyraflufen-ethyl, a member of the phenyl pyrazole class of herbicides, inhibits the protoporphyrinogen oxidase (PPO) enzyme which results in cell membrane destruction and necrosis. 2,4-D and dichlorprop-P are members of the phenoxy class of herbicides. They mimic the plant growth regulator indol-3-acetic acid (auxin), interfering with cell enlargement and division, and development in susceptible plants.

Warm, moist growing conditions promote active weed growth and enhance the activity of **BlackHawk EVO Herbicide** by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur.

APPLY **BlackHawk EVO Herbicide** WITH GROUND EQUIPMENT ONLY.

For best results, ensure thorough spray coverage of target weeds. Refer to the specific use directions sections of this label for complete use details.

Do not use BlackHawk EVO Herbicide as a pre-emergence treatment and a postharvest/fall burn-down application on the same fields in the same year.

For field corn, do not graze or cut treated crops for forage until 75 days after application.

For cereal grain crops (except annual canary grass), do not graze or cut treated crops for forage and hay until 30 days after application.

Withdraw meat animals from treated fields at least 3 days before slaughter.

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

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

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

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

DO NOT apply by air.

SPRAY BUFFER ZONES

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

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

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	
Field sprayer	wheat (spring, durum, winter), barley, oats, rye (spring, fall), triticale, corn (field), annual canary grass, spring barley, and summer fallow	1	1	2

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

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

REGISTERED CROPS:

BlackHawk EVO Herbicide can be applied pre-seeding or post-seeding prior to crop emergence in the crops from the crop groups listed below as well as annual canary grass and summerfallow. Crops not listed can be planted one month after **BlackHawk EVO Herbicide** application.

Crop Group 15: Cereal Grains

Spring Barley, corn (field), rye (spring and fall), triticale, wheat (spring, durum, and winter), and oats*

*For oats, apply a minimum of 7 days before planting.

MIXING INSTRUCTIONS:

1. Select a spray volume and nozzle type that will ensure thorough coverage and uniform spray pattern. Use a minimum of 50 - 100 L spray volume per hectare.
2. Fill the spray tank 1/3 full with fresh water and start agitation.
3. Add the required amount of **BlackHawk EVO Herbicide** to the tank, agitate well.
4. If tank mixing with glyphosate, add the required amount of glyphosate to the tank and agitate well. Always consult the label of the tank mix partner(s) for minimum spray volume requirements and apply the tank mixture using a water volume recommended for all products.
5. Continue to fill tank and maintain agitation for at least 5 minutes to ensure thorough mixing.
6. Use the spray preparation of **BlackHawk EVO Herbicide** within 24 hours. Product degradation may occur under alkaline conditions (pH >7.5). If spray solution is left standing without agitation, thoroughly agitate before resuming the spraying operation.

APPLICATION INSTRUCTIONS:

Apply the spray mixture uniformly with properly calibrated ground equipment only. Ensure thorough coverage and a uniform spray pattern. Flat fan nozzles are recommended (minimum 50 - 100 L spray volume per hectare). Use 50 mesh filter screens or larger (metal or nylon). A spray pressure of 210 - 275 kPa is recommended. Apply uniformly.

i. BlackHawk EVO Herbicide ALONE

Rate: Apply 617 mL to 925 mL of **BlackHawk EVO Herbicide** per hectare.

Weeds Controlled with 617 mL of BlackHawk EVO Herbicide per Hectare
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	Narrow-leaved hawk's-beard (in fall, and at the 1- to 2-leaf stage in spring)
Annual Sowthistle	Night-flowering catchfly
Black Medic (suppression)	Broadleaf Plantain
Canada fleabane (including glyphosate-resistant biotypes)	Lamb's-quarters (including group 2 & 5 resistant biotypes)
Cleavers (including glyphosate-resistant biotypes)	Powell's Amaranth
	Common Ragweeds (including group 2 and glyphosate-resistant biotypes)
	Redroot pigweed (including group 2 & 5 resistant biotypes)
Dandelion	Shepherd's-purse
	Volunteer canola (including glyphosate, glufosinate ammonium, and imidazolinone-resistant biotypes)
	Wild buckwheat *
Kochia (including group 2 and glyphosate-resistant biotypes)	Wild mustard

* For optimum control of wild buckwheat, use a rate of 925 mL/ha.

Timing: For best results apply to emerged, young, actively growing weeds that are less than 5 cm tall or across. Thorough coverage of target weeds is essential.

Weed control may be reduced if the plants are beyond the recommended application growth stage, and during stress conditions, e.g., drought, heat or cold stress, or in heavy infestations where overlapping leaves prevent spray contact. In these situations, use up to 925 mL/ha to improve results.

ii. BlackHawk EVO Herbicide + Glyphosate

Apply **BlackHawk EVO Herbicide** tank mixed with glyphosate prior to seeding or post-seeding beforecrop emergence. Rates and formulation of glyphosate are detailed in the following table. When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary

measures for mixing, loading and applying stated on both product labels.

Herbicide and Rate	Tank Mix Partner	Glyphosate Rate
BlackHawk EVO Herbicide 617 mL/ha – 925 mL/ha	Glyphosate	450 – 900 g a.e./ha*

* Equal to 1.25 – 2.5 L/ha of glyphosate at 360 g/L,
1.0 – 2.0 L/ha of glyphosate at 450 g/L or
0.83 – 1.67 L/ha of glyphosate at 540 g/L

Higher rates of glyphosate may be recommended in some situations. Refer to the glyphosate product label for further effective rates.

Weeds controlled: All weeds controlled by **BlackHawk EVO Herbicide** and glyphosate alone (see the tank mix partner label).

For weeds that are not controlled by the chosen rate of glyphosate, apply the tank mixture in accordance with the recommended timing for control of the weed with **BlackHawk EVO Herbicide alone**.

In some cases, tank mixing a pest control product with another pest control product, or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Nufarm Agriculture Inc. at 1-800-868-5444 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

ANNUAL CANARY GRASS

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

DIRECTIONS FOR USE

ALWAYS REFER TO THE PRODUCT LABEL FOR FURTHER INFORMATION ON WEEDS CONTROLLED, APPLICATION DIRECTIONS, AND USE PRECAUTIONS.

ANNUAL CANARY GRASS

Rate: Apply 617 mL to 925 mL of **BlackHawk EVO Herbicide** in 50-100 L spray volume per hectare.

Annual canary grass seeds can be harvested for human consumption.

Annual canary grass is NOT to be cut for feed or grazed.

Post-Harvest/Fall burn-down Weed Control:

This product may be applied in the fall as a post-harvest or fall burn down application for control of weeds at rates listed below on the label. Allow weeds to regrow to the desired stage before application. Heavy frosts prior to application may decrease control.

For broader spectrum weed control, apply BlackHawk® EVO Herbicide in tank mixture with the products listed in the following table.

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

Tank Mixes for Post-Harvest/Fall burn-down Weed Control:

Weeds Controlled*	Product	Herbicide Rates
Weeds listed on respective tank mix partner labels	BlackHawk EVO® Herbicide + glyphosate	617-925mL/ha + 450-1260 g a.e./ha**
Canada Fleabane (including glyphosate resistant biotypes) plus weeds listed on respective tank mix partner labels	BlackHawk EVO® Herbicide + glyphosate + Valtera® Herbicide	617-925mL/ha + 450-1260 g a.e./ha** + 140-210 g/ha

*Weeds Controlled: in addition to specific weeds listed, all weeds controlled by BlackHawk® EVO Herbicide and glyphosate alone (see the respective tank mix partner labels).

** Equal to 1.25 – 3.5 L/ha of glyphosate 360 g/L,
1.0 – 2.8 L/ha of glyphosate 450 g/L or
0.83 – 2.33 L/ha of glyphosate 540 g/L

SPRAYER CLEANUP:

To avoid subsequent injury to crops, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of **BlackHawk EVO Herbicide** from mixing and spray equipment as follows:

- Drain tank; then flush tank, boom and hoses with clean water for a minimum of ten minutes.
- Next, prepare a sprayer cleaning solution by adding 3 litres of ammonia (containing at least 3% active) per 100 litres of clean water. Prepare sufficient cleaning solution to allow the operation of the spray system for a minimum of 15 minutes to thoroughly flush the tank, hoses, spray boom and spray nozzles.
- If possible, leave the ammonia solution or fresh water left in the spray tank, hoses, spray booms and spray nozzles overnight or during storage to dissolve and dilute any remaining traces of herbicide.
- Nozzles and screens may be cleaned separately in a bucket containing cleaning agent and water.
- DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, **BlackHawk EVO Herbicide** is a Group 4 and 14 herbicide. Any weed population may contain or develop plants naturally resistant to **BlackHawk EVO Herbicide** and other Group 4 and 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of **BlackHawk EVO Herbicide** or other Group 4 and/or 14 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area, if possible, by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

For further information and to report suspected resistance, contact Nufarm Agriculture Inc. at 1-800-868-5444 or at www.nufarm.ca.

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