

(Booklet)

GROUP	6	14	HERBICIDES
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**Conquer Herbicide**

**Emulsifiable Concentrate**

COMMERCIAL

FOR CONTROL OF EMERGED BROADLEAF WEEDS PRIOR TO THE EMERGENCE OF CANOLA,  
WHEAT, BARLEY, CANARY SEED, FALL RYE, OATS, TRITICALE, CORN AND SUMMERFALLOW

**GUARANTEE:**

Pyraflufen-ethyl ... 15 g/L  
Bromoxynil, present as octanoate ester ... 467 g/L

Warning, contains the allergen soy

**READ THE LABEL AND BOOKLET BEFORE USING**

DANGER {symbol; skull & crossbones in octagon} POISON  
POTENTIAL SKIN SENSITIZER

REGISTRATION NO.: 32528 PEST CONTROL PRODUCTS ACT

Net Contents: (0.5 – Bulk) Litres

Nufarm Agriculture Inc.  
Suite 350, 2618 Hopewell Place NE  
Calgary, Alberta T1Y 7J7  
1-800-868-5444

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

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

DANGER – POISON. Harmful or fatal if swallowed.

. Potential skin sensitizer. Avoid contact with clothing.

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

DO NOT APPLY BY AIR.

Apply only when the potential for drift to areas of human habitation or 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:**

During mixing, loading, clean-up and repair, workers must wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves and shoes plus socks. Rinse gloves before removal.

During application, workers must wear a long-sleeved shirt, long pants and shoes plus socks.

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 24 hours.

**ENVIRONMENTAL HAZARDS:**

Toxic to small mammals, birds, aquatic organisms and non-target terrestrial plants.

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

Observe buffer zones specified under DIRECTIONS FOR USE.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

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

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

**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.

**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 CONDITIONS:**

Store in a cool, well ventilated area and out of the reach of children and animals. Storage below 0°C will not impair the effectiveness of **Conquer Herbicide**, however, if frozen, return to original state by allowing product to warm to 10 - 20°C and agitate thoroughly before use.

Keep unused product in original container tightly closed.

To prevent contamination store this product away from food or feed.

**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.

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

**For Returnable Containers:**

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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

<b>DIRECTIONS FOR USE</b>
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**Conquer Herbicide** is designed for use as a contact herbicide for broadleaf weed control. **Conquer Herbicide** will damage emerged crop plants, even in minute quantities. Apply **Conquer Herbicide** prior to the emergence of the crop, either as a pre-seeding or post-seeding application. **Conquer Herbicide** does not provide residual weed control. 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.

Bromoxynil, a member of the nitrile class of herbicides, inhibits the D1 quinone-binding protein of Photosystem II, thus restricting photosynthesis.

Warm, moist growing conditions promote active weed growth and enhance the activity of **Conquer 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 **Conquer Herbicide** WITH GROUND EQUIPMENT ONLY. DO NOT APPLY BY AIR.

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

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.

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

Do not permit lactating dairy animals to graze fields within 7 days after application.

Do not graze or cut treated crops for forage until 30 days after application.

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

**Buffer zones:**

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment and soil incorporation.

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

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	All crops	1	1	1	1	1

\* For field sprayer application, buffer zones can be reduced with the use of drift-reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

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

NOTE: Applicators may recalculate a site-specific buffer zone by combining information on current weather conditions and spray configuration for the following applications: all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: 'DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.' To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site.

**REGISTERED CROPS:**

**Conquer Herbicide** can be applied pre-seeding or post-seeding application prior to crop emergence in the crops from the crop groups listed below as well as canary seed and summerfallow.

Crops not listed can be planted one month after **Conquer Herbicide** application.

**Crop Group 15: Cereal Grains**

Spring wheat (including durum), winter wheat, barley, fall rye, oats, triticale, and corn

**Crop Group 20A: Oilseeds**

Canola

**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 **Conquer Herbicide** to the tank.
4. If tankmixing with glyphosate, next 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 **Conquer 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. As with all contact herbicides, coverage is important. Using higher water volumes will increase performance. Under non-ideal conditions (drought, cold temperatures, high crop residue, larger weeds etc.) use higher water volumes.

<b>i. Conquer Herbicide ALONE</b>
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**Rate:** Apply 300 mL of **Conquer Herbicide** per hectare.

<b>Weeds Controlled (C) or Suppressed (S) with 300 mL/ha of Conquer Herbicide</b>	
Annual sowthistle	S
Cleavers (including glyphosate-resistant biotypes)	C
Cow cockle	S
Dandelion	S
Flixweed	S
Kochia (including group 2 & 5 resistant biotypes)	C
Lamb's-quarters (including group 2 & 5 resistant biotypes)	C
Narrow-leaved hawk's-beard	S
Night-flowering catchfly	C
Redroot pigweed (including group 2 & 5 resistant biotypes)	C
Stinkweed	S
Volunteer canola (including glyphosate, glufosinate ammonium, and imidazolinone-resistant biotypes)	C
Wild buckwheat	S
Wild mustard	S

**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.

**ii. Conquer Herbicide + Glyphosate**

Apply **Conquer Herbicide** tank mixed with glyphosate prior to seeding or post-seeding before crop emergence. Rates and formulation of glyphosate are detailed in the following table. Follow all precautions, limitations, timing recommendations, crop rotations and sprayer cleanup on the tank mix partner product label.

Herbicide and Rate	Tank Mix Partner	Glyphosate Rate
<b>Conquer Herbicide</b> 300 mL/ha	<b>Glyphosate</b> (present as isopropylamine or potassium salt)	450 – 900 g a.i./ha*

\* Equal to 1.25 – 2.5 L/ha of glyphosate 360 g/L,  
1.0 – 2.0 L/ha of glyphosate 450 g/L or  
0.83 – 1.67 L/ha of glyphosate 540 g/L  
Higher rates of glyphosate may be recommended in some situations. Refer to the glyphosate product label for further effective rates.

<b>Weeds Controlled (C) or Suppressed (S) with 300 mL/ha of Conquer Herbicide + Glyphosate</b> <b>All weeds controlled by Conquer alone and Glyphosate alone plus:</b>	
Pineapple weed	S
Shepherd's-purse	C
Stinkweed	C
Wild buckwheat	C
Wild mustard	C

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 **Conquer 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. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Nufarm Agriculture Inc.

**SPRAYER CLEANUP:**

To avoid subsequent injury to crops, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of **Conquer 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, **Conquer Herbicide** is a Group 6 and 14 herbicide. Any weed population may contain or develop plants naturally resistant to **Conquer Herbicide** and other Group 6 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 **Conquer Herbicide** or other Group 6 and 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](http://www.nufarm.ca).

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