

GROUP	2	HERBICIDE
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NCS IVAMOX II 70 HERBICIDE

Wettable Granules Herbicide

in water-soluble bags

COMMERCIAL
(AGRICULTURAL)

ACTIVE INGREDIENT: Imazamox 70%

Warning: contains the allergen milk

REGISTRATION NO. 35494 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 4 x (117.5 g water-soluble bag)

WARNING - EYE IRRITANT

READ THE LABEL AND THIS BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

DO NOT SELL INDIVIDUAL WATER-SOLUBLE BAGS SEPARATELY

Northern CropScience Inc.
Suite 300, 336 Sheppard Avenue East
North York, Ontario
M2N 3B4
1-437-880-8283

FOR CHEMICAL EMERGENCY: spill, leak, fire, exposure or accident, call CHEMTREC 1-800-424-9300.

For product and use information, call Northern CropScience Inc.: 1-437-880-8283.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

DO NOT APPLY BY AIR.

Causes eye irritation.

DO NOT get in eyes.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. Gloves are not required during application and gloves are not required during application within a closed cab.

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

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

FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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

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

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

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

TOXICOLOGICAL INFORMATION

Treat symptomatically.

STORAGE

Store above 5°C.

Store this product away from food or feed.

Store in a cool, dry place away from children, animals or fertilizers.

Keep unused water-soluble bags in resealed original container.

Keep packages dry at all times.

Keep packages out of rain.

Keep from freezing.

DISPOSAL

Recyclable containers:

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

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
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 or territorial requirements.

Disposal of unused, unwanted product: For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for cleanup 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.

ENVIRONMENTAL PRECAUTIONS

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

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

Avoid application when heavy rain is forecast.

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

Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

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.

For use only on soybeans in Eastern Canada only and field peas, imazamox-tolerant canola, imazamox-tolerant lentils, imazamox-tolerant sunflowers and imazamox-tolerant canola quality *Brassica juncea* in the Prairie Provinces and Interior of British Columbia (Including the Peace River Region) only.

DIRECTIONS FOR USE (Eastern Canada Only)

NCS IVAMOX II 70 Herbicide is a selective herbicide that can be applied as an early post-emergence treatment (cotyledon to 4-leaf stage) in soybeans.

DIRECTIONS FOR USE (Prairie Provinces and Interior of British Columbia (Peace River Region) only)

NCS IVAMOX II 70 Herbicide is a selective herbicide that can be applied as an early post-emergence treatment in field peas, imazamox-tolerant canola, imazamox-tolerant lentils, imazamox-tolerant sunflowers and imazamox-tolerant canola quality *Brassica juncea*.

When NCS IVAMOX II 70 Herbicide is applied early post-emergence, absorption may occur through both the roots and foliage. Susceptible weeds stop growing and eventually die.

DO NOT apply more than once per year.

DO NOT graze the treated field peas, soybeans, imazamox-tolerant canola, imazamox-tolerant lentils or imazamox-tolerant canola quality *Brassica juncea* or cut for hay within 20 days of application.

DO NOT graze treated sunflower plants or cut for straw; sufficient data are not available to support such use.

Pre-harvest Interval: After 60 days, field peas, soybeans, canola, imazamox-tolerant lentils and imazamox-tolerant canola quality *Brassica juncea* can be harvested. Sunflowers can be harvested after 70 days.

Field Sprayer Application

DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) medium classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply by air.

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.

Spray Buffer Zones

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage

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).

Method of Application	Crop	Spray Buffer zones (metres) Required for the Protection of Terrestrial Habitat:
Field sprayer	All crops	1

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

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

BROADLEAF WEED AND GRASS CONTROL (Prairie Provinces and Interior of British Columbia (including the Peace River Region) only)

NCS IVAMOX II 70 herbicide at 21 g/ha (15 g a.e./ha) will control only:	
Lamb's-quarters*	Volunteer spring wheat
Stinkweed	(non-imazamox-tolerant wheat)
Wild mustard	
NCS IVAMOX II 70 herbicide at 29 g/ha (20 g a.e./ha) will control:	
Barnyard grass	Volunteer barley
Cleavers*	Volunteer canary seed
Cow cockle	Volunteer canola (non- imazamox-tolerant canola only)
Green foxtail	Volunteer durum wheat
Green smartweed	Volunteer spring wheat (non-imazamox-tolerant wheat)
Japanese brome grass*	Volunteer tame oats
Kochia*	Wild buckwheat*
Lamb's-quarters	Wild mustard
Persian dandel	Wild oats
Redroot pigweed	Yellow foxtail
Round-leaved mallow*	
Russian thistle	
Shepherd's purse	
Stinkweed	

* = suppression only

Apply in 100 L/ha of water with MERGE® Adjuvant at a rate of 0.5% v/v (e.g. 5 L of MERGE Adjuvant per 1000 L spray solution).

Imazamox-tolerant Canola

Application should be made from the 2 to 6 true leaf stage of the canola crop and after the weeds have emerged. To control broadleaf weeds, apply NCS IVAMOX II 70 herbicide from the cotyledon to the 4-leaf stage. To control grasses, apply NCS IVAMOX II 70 herbicide from the 1 to 4-true leaf stage until early tillering. Initial transient crop yellowing may be observed after application but this is outgrown and should not affect yield.

Imazamox-tolerant Canola Quality *Brassica juncea*

Application should be from the 2 to 6 true leaf stage of the crop and after the weeds have emerged. To control broadleaf weeds, apply NCS IVAMOX II 70 herbicide from the cotyledon to the 4-leaf stage. To control grasses, apply NCS IVAMOX II 70 herbicide from the 1 to 4 true leaf stage until early tillering. Initial transient crop yellowing may be observed after application but this is outgrown and should not affect yield.

Imazamox-tolerant Sunflowers

Application should be made from the 2 to 8 leaf stage of the sunflower crop and after the weeds have emerged. To control broadleaf weeds, apply NCS IVAMOX II 70 herbicide from the cotyledon up to the 4-leaf stage. To control grasses, apply NCS IVAMOX II 70 herbicide from the 1 to 4-true leaf stage up until early tillering. Initial transient crop yellowing may be observed after application but this is outgrown and should not affect yield.

Imazamox-tolerant Lentils

Application should be made from the 2 to 6 leaf stage of the lentil crop and after the weeds have emerged. To control broadleaf weeds, apply NCS IVAMOX II 70 herbicide from the cotyledon up to the 4-leaf stage. To control grasses, apply NCS IVAMOX II 70 herbicide from the 1 to 4-true leaf stage up until early tillering.

FOR FIELD PEAS

Application should be made from the 1 to 6 true leaf stage and after weeds have emerged. Apply when broadleaf weeds are from the cotyledon to 4-leaf stage and when grassy weeds are at the 1 to 4 true leaf or early tillering. Initial transient crop yellowing may be observed after application but this is outgrown and should not affect yield.

TANK-MIX COMBINATION

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

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Northern CropScience Inc. at 1-437-880-8283 for information before applying any tank mix that is not specifically recommended on this label.

NCS IVAMOX II 70 Herbicide + Lontrel SG Herbicide in imazamox-tolerant Canola

NCS IVAMOX II 70 herbicide may be tank-mixed with Lontrel SG Herbicide in imazamox-tolerant Canola.

Timing	Early post-emergence		
Rate	29 g/ha NCS IVAMOX II 70 Herbicide + 100 g/ha Lontrel SG Herbicide		
Water Volume	100 L/ha		
Surfactant/Adjuvant	Add MERGE Adjuvant - 0.5% v/v		
Weeds Controlled	This tank-mix combination will provide control of weeds as listed on the NCS IVAMOX II 70 Herbicide. Refer to Broadleaf weed and Grass control Section. Improved weed control with the tank mix vs. NCS IVAMOX II 70 Herbicide alone.		
		Control	Top Growth Control
		Wild buckwheat	Canada thistle
		Annual sow thistle	Perennial sow thistle
Remark	Application should be made from the 2 to 6 leaf stage of the canola crop and after the weeds have emerged. To control broadleaf weeds, apply NCS IVAMOX II 70 herbicide from the cotyledon to the 4-leaf stage. To control grasses, apply NCS IVAMOX II 70 herbicide from the 1 to 4 true leaf stage until early tillering. Initial transient crop yellowing may be observed after application but this is outgrown and should not affect yield. For tank mixing, see mixing instructions. Refer to Tank mix rotational crop restrictions for details.		

Tank Mix Rotational Crop Restrictions

NCS IVAMOX II 70 Herbicide + Lontrel SG Herbicide in Imazamox-Tolerant Canola

Fields previously treated with tank mix can be seeded to wheat, barley, oats and rye (not underseeded to forage legumes, clover or alfalfa), canola, corn, field peas, flax, forage grasses or can be summer-fallowed. Seed only those crops listed above in the year following treatment.

Do not seed to field peas for at least 10 months following treatment. Very dry soil conditions following application can result in a risk of injury to field peas grown in rotation. If severe drought conditions are experienced during the months of June to August inclusive in the year of application, delay seeding field peas an additional 12 months (total 22 months following application).

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Contact your local Northern CropScience Inc. representative or retailer for more information before seeding field peas following drought conditions in the previous year.

Tank Mix Pre-harvest / Grazing Interval

Do not harvest the treated crop within 60 days of application.

BROADLEAF WEED and GRASS CONTROL (Eastern Canada Only - Soybeans)

Application must be made after the weeds have emerged. To control broadleaf weeds, apply NCS IVAMOX II 70 Herbicide from the cotyledon to 4 leaf stage. To control grasses, apply NCS IVAMOX II 70 Herbicide to green and yellow foxtail when in the 1-4 true leaf stage and to barnyard grass and fall panicum when in the 3-6 leaf stage.

NCS IVAMOX II 70 Herbicide at 36 g product/ha (25 g a.e./ha) will control:

Common ragweed*

Lady's thumb

Lamb's-quarters*

Redroot pigweed

Velvetleaf

Wild mustard

Cocklebur*

Eastern black nightshade

Green foxtail

Yellow foxtail

Barnyard grass

Fall panicum

*Suppression only

Apply in 200 L/ha of water with a NONIONIC SURFACTANT (AGRAL[®], AGSURF[®]) at the rate of 0.25% percent v/v and a fertilizer solution, 28-0-0 or 32-0-0, at a rate of 2 L/ha.

MIXING INSTRUCTIONS

1. Use 100 L/ha of water for Western Canada (the Prairie Provinces and Peace River Region of British Columbia) uses and 200 L/ha of water for Eastern Canada uses.
2. Use a 50-mesh (or coarser) filter screen.
3. Fill the spray tank with three-quarters of the required amount of clean water, start agitation and continue agitation throughout the entire mixing and spraying procedure.
4. Add the required amount of NCS IVAMOX II 70 herbicide soluble bag(s) directly into the sprayer through the tank opening.
5. For NCS IVAMOX II 70 Herbicide + Lontrel SG Herbicide tank mix, add recommended Lontrel SG Herbicide.
6. Agitate for at least ten minutes to dissolve the herbicide. After the herbicide is dissolved, continue agitation.
7. Add the required amount of MERGE Adjuvant or NONIONIC SURFACTANT. If excess foaming occurs, a silicone anti-foaming agent may be added (e.g. HALT[®]).

8. Complete filling the tank to the desired level with water. If agitation is stopped for more than 5 minutes, re-suspend spray solution by full agitation prior to commencing spraying again.
9. Between loads of NCS IVAMOX II 70 Herbicide, check in-line and nozzle screens and rinse clean if necessary.
10. Upon completion of spraying NCS IVAMOX II 70 herbicide or the tank mix, thoroughly flush tank, boom, hoses and in-line and nozzle screens with clean water to avoid possible injury to other crops.

FOLLOW CROPPING

Prairie Provinces and Interior of British Columbia (including the Peace River Region)

Winter wheat can be planted 3 months after treatment (3 MAT) as a rotational crop.

Initial crop injury to non- imazamox-tolerant canola may be observed. Avoid spray overlap as yield reduction may result. The following crops may be grown safely the year following an application:

Canary seed
Field corn
Field peas
Imazamox-tolerant Canola
Canola
Lentils
Spring wheat
Durum wheat
Spring barley
Sunflower
Tame oats
Flax
Chickpeas
Imazamox-tolerant Sunflowers

The following crop may be grown safely two years following an application:

Mustard (condiment type only)

There are insufficient data for other follow crops. Conduct a field bioassay (a test strip grown to maturity) the year before growing any crop other than those listed above.

Eastern Canada

The following crops may be grown safely the year following an application:

Soybeans
Imazethapyr-tolerant canola

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Field corn
Spring barley
Oats

Winter wheat (Winter wheat should not be planted within 100 days of the last NCS IVAMOX II 70 Herbicide application).

Processing tomatoes (transplanted)

There are insufficient data for other follow crops. Conduct a field bioassay (a test strip grown to maturity) the year before growing any crop other than those listed above.

In cases of crop failure, only soybeans may be re-planted in the year of application.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, NCS IVAMOX II 70 herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to NCS IVAMOX II 70 herbicide and other Group 2 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 NCS IVAMOX II 70 herbicide or other Group 2 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.

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For further information or to report suspected resistance, contact Northern CropScience Inc. at 1-437-880-8283.

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Sleeve

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NCS IVAMOX II 70 HERBICIDE

Wettable Granules Herbicide
in water-soluble bags

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT: Imazamox 70%

Warning: contains the allergen milk

REGISTRATION NO. 35494 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 4 x (117.5 g water-soluble bag)

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FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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

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

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

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

TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS

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

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Avoid application when heavy rain is forecast.

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STORAGE

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Store in a cool, dry place away from children, animals or fertilizers.

Keep unused water-soluble bags in resealed original container.

Keep packages dry at all times.

Keep packages out of rain.

Keep from freezing.

DISPOSAL

Recyclable containers:

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Pouch label

NCS IVAMOX II 70 HERBICIDE

70% Wettable Granules Herbicide

COMMERCIAL (AGRICULTURAL)

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ACTIVE INGREDIENT: Imazamox ... 70%

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