

2024-6576  
2025-05-01

Container Label

GROUP	2	HERBICIDE
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## Odyssey® NXT II

Water-Dispersible Granular Herbicide

COMMERCIAL (AGRICULTURAL)

FOR SALE FOR USE IN THE PRAIRIE PROVINCES ONLY

**ACTIVE INGREDIENTS:** Imazamox..... 35%  
Imazethapyr..... 35%

Warning, contains the allergen sulfites

CAUTION - SKIN IRRITANT

**REGISTRATION NO. 33678**

**PEST CONTROL PRODUCTS ACT**

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT  
1-800-454-2673**

**NET CONTENTS:** 0.2 kg – 100 kg, Bulk

BASF Agricultural Solutions Canada Inc.  
510 - 28 Quarry Park Blvd. SE  
Calgary, Alberta T2C 5P9  
1-877-371-2273

ODYSSEY is a registered trade-mark of BASF Agrochemical Products B.V., used under license by BASF Agricultural Solutions Canada Inc.

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## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN.**

Skin irritant.

Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking or going to the washroom. Take a shower immediately after work.

Wear a long-sleeved shirt and long pants during mixing/loading, application, clean-up and repair. In addition, wear chemical resistant gloves during mixing and loading.

If clothing becomes contaminated, remove immediately and wash. Store and wash all protective clothing separately from household laundry. Wash in detergent and hot water before reuse. Wear freshly laundered clothes daily.

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

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 12 hours after application.

## **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 HAZARDS**

TOXIC to non-target terrestrial and aquatic plants. Observe 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 of this product when heavy rain is in the 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 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.

## **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 requirements.

### **Returnable-Refillable Containers**

For disposal, this empty 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.

## **STORAGE**

Store the product in original, tightly-closed container and do not allow water to be introduced into this container.

Do not ship or store the product near food, feed, seed or fertilizers.

Store the product in a cool, dry, locked, well-ventilated area without floor drain.

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**NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

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Booklet

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Avoid application of this product when heavy rain is in the 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.

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## NOTICE TO USER

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## DIRECTIONS FOR USE

**Odyssey NXT II** is a selective herbicide that can be applied as an early post-emergence treatment to the following crops:

- Alfalfa grown for seed (seedling and established)
- Clover grown for seed (seedling, red, alsike and sweet)
- Bird's foot trefoil grown for seed
- **Clearfield** Lentils<sup>1</sup> (lentil varieties with the **Clearfield** trait)
- **Clearfield** Sunflowers<sup>1</sup> (sunflower varieties with the **Clearfield** trait)
- Faba beans
- Fenugreek grown for seed and forage
- Peas (field)
- Sainfoin grown for seed (seedling)
- Soybeans

**Odyssey NXT II** should only be used on **Clearfield** Sunflowers<sup>1</sup> where production is not destined for export.

When **Odyssey NXT II** is applied early post-emergence, absorption may occur through both the roots and foliage. Susceptible weeds stop growing and eventually die.

Rainfastness Interval: **Odyssey NXT II** is rainfast 3 hours after application.

### 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) medium classification. Boom height must be 60 cm or less above the crop or ground.

**DO NOT** apply using aerial application equipment.

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

### Buffer Zones

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).

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

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

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

### APPLICATION INSTRUCTIONS

#### Rate

Apply 29 to 43 g of **Odyssey NXT II** per hectare as a single post-emergent application. Apply in a water volume of 50-100 L/ha with MERGE® Adjuvant at a rate of 0.5% v/v (i.e., 5 litres per 1000 L of spray solution). Use ground equipment only.

#### Registered Crops and Application Timing

Applications should be made at the appropriate crop staging as indicated below and after weeds have emerged. Apply when broadleaf weeds are from the cotyledon to the 4-leaf stage and when grassy weeds are from the 1 to 4-true leaf stage up until early tillering.

Crop	Leaf Stage
Alfalfa (seedling and established; seed production only)	1 to 4 leaf stage
Bird's foot trefoil (seed production only)	1 to 4 leaf stage
<b>Clearfield</b> Lentils <sup>1</sup>	1-9 node stage
<b>Clearfield</b> Sunflowers <sup>1</sup>	2 to 8 true leaf stage
Clover (seedling, red, alsike and sweet; seed production only)	1 to 4 leaf stage
Faba beans	1 to 6 leaf stage
Fenugreek	1 to 4 leaf stage
Peas (field)	1 to 6 true leaf stage
Sainfoin (seedling; seed production only)	1 to 4 leaf stage
Soybeans	1 to 3 true leaf stage

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## WEEDS CONTROLLED

**Odyssey NXT II** at 29 g/ha will control:

Redroot pigweed  
Volunteer tame mustard  
Wild mustard

**Odyssey NXT II** at 43 g/ha will control:

Chickweed	Barnyard grass
Cleavers	Green foxtail
Flixweed	Persian darnel
Green smartweed	Volunteer barley
Hemp-nettle *	Volunteer tame oats
Kochia (suppression)	Volunteer wheat
Lamb's-quarters (suppression)	Wild oats
Redroot pigweed	
Russian thistle*	
Shepherd's purse	
Stinkweed	
Stork's bill	
Volunteer canola (non- <b>Clearfield</b> canola only)	
Volunteer tame mustard	
Wild buckwheat *	
Wild mustard	

\* suppression in less competitive crops, such as field peas and **Clearfield** Lentils<sup>1</sup>

## Tank Mix Options

To provide enhanced weed control, **Odyssey NXT II** may be tank-mixed with the following tank-mix partners. When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations 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.

### **Odyssey NXT II + Poast® Ultra Liquid Emulsifiable Herbicide**

**Odyssey NXT II** may be tank-mixed with Poast Ultra Liquid Emulsifiable Herbicide and applied to field peas, **Clearfield** Lentils<sup>1</sup> (lentil varieties with the **Clearfield** trait), faba beans and soybeans.

Apply **Odyssey NXT II** after weeds have emerged and from the 1-6 true leaf stage of field peas; 1-9 node stage of **Clearfield** Lentils<sup>1</sup>; 1-6 leaf stage of faba beans; and 1-3 true leaf stage of soybeans. Apply to broadleaf weeds from the cotyledon to 4-leaf stage and to grassy weeds from 1-6 true leaf or up to 2 tillers. Refer to the Poast Ultra Liquid Emulsifiable Herbicide label for additional recommendations not specified on this label.

<b>Rate</b>	<p><b>Odyssey NXT II</b> at 43 g/ha + Poast Ultra Liquid Emulsifiable Herbicide at 0.32 to 0.38 L/ha* + Merge Adjuvant at 0.5% v/v</p> <p>* Apply Poast Ultra Liquid Emulsifiable Herbicide at a rate of 0.47 L/ha for control of fall emerged Japanese brome grass, or when weed densities are high and overlapping, when staging is late, or when weeds are under stress and not growing as actively due to moisture stress or temperature stress.</p>
<b>Weeds Controlled</b>	<p>In addition to the control of weeds as listed on the <b>Odyssey NXT II</b> label, this tank-mix combination controls:</p> <p>Crabgrass (large) Fall panicum Green foxtail (including Group 1 and 2 resistant) * Japanese brome grass ** Proso millet Quack grass (suppression, 2 to 5 leaf) ** Volunteer corn Volunteer wheat (including <b>Clearfield</b>) Wild oats (including Group 1 and 2 resistant)* Witchgrass Yellow foxtail</p> <p>* The tank mix of <b>Odyssey NXT II</b> + Poast Ultra Liquid Emulsifiable Herbicide will not control weed biotypes that are multiple-resistant to both Group 1 and Group 2 Herbicides.</p> <p>** Poast Ultra Liquid Emulsifiable Herbicide applied at a rate of 0.38 L/ha in tank mix with <b>Odyssey NXT II</b> will provide control of spring germinating Japanese brome grass, and suppression of quack grass and fall emerged Japanese brome grass.</p>

**Odyssey NXT II + Caziva® Ultra Q, Assure II Herbicide or Yuma® GL Liquid EC Herbicide**

**Odyssey NXT II** may be tank-mixed with Caziva Ultra Q, Assure II Herbicide or Yuma GL Liquid EC Herbicide and applied to field peas, **Clearfield** Lentils<sup>1</sup> (lentil varieties with the **Clearfield** trait), faba beans and soybeans as a post-emergent application. Apply after weeds have emerged and from the 1-6 true leaf stage of field peas; 1-9 node stage of **Clearfield** Lentils<sup>1</sup>; 1-6 leaf stage of faba beans; and 1-3 true leaf stage of soybeans.

**Application Rate**

Apply in 50 - 100 L/ha of water with Merge Adjuvant at a rate of 0.5% v/v (i.e., 5 L Merge Adjuvant in 1000 spray solution). Use ground equipment only.

<b>Crops</b>	<b>Odyssey NXT II (g/ha)</b>	<b>Caziva Ultra Q, Assure II Herbicide or Yuma GL Liquid EC Herbicide (L/ha)</b>	<b>Merge Adjuvant (% v/v)</b>
Faba beans, <b>Clearfield</b> <sup>1</sup> lentils, peas (dried field), soybeans	43	0.38 – 0.75	0.5

## Weeds Controlled

This tank-mix combination will provide control of the grass weeds listed below in addition to the broadleaf weeds listed in the Weeds Controlled section of this label. Refer to the tank mix partner product labels for weed stages of control.

<b>Caziva Ultra Q<sup>1</sup></b>	<b>Grass Weeds Controlled</b>	
0.38 L/ha	Barnyard grass Downy brome Foxtail barley Green foxtail <sup>2</sup> Japanese brome Persian darnel Quackgrass (suppression)	Volunteer barley Volunteer corn Volunteer tame oats Volunteer wheat (spring and durum) <sup>3</sup> Yellow foxtail Wild oats <sup>2</sup>
0.50 L/ha	<u>Those controlled above by 0.38 L/ha and:</u> Fall panicum Old witchgrass	
0.75 L/ha	<u>Those controlled above and:</u> Quackgrass	

<sup>1</sup> Assure II or Yuma GL Liquid EC Herbicide may be substituted for Caziva Ultra Q at same product rate.

<sup>2</sup> Including Group 1 or Group 2 resistant biotypes.

<sup>3</sup> Including **Clearfield** tolerant varieties.

## PRE-HARVEST AND GRAZING INTERVALS (PHI)

### 1. Pre-harvest Interval (PHI)

Crop	PHI (days)
Faba beans	60
Fenugreek (forage production)	60
Lentils	60
Peas (field) *	60
Soybeans	85
Sunflowers	60

\* Field peas treated with **Odyssey NXT II** may be fed to livestock 30 days after application.

2. DO NOT graze treated soybeans or cut for hay; sufficient data are not available to support such uses.
3. Application to alfalfa, bird's foot trefoil, clover and sainfoin is for seed production only. Harvested crop not to be fed to livestock. Do not graze treated crop or cut for hay.

4. Fenugreek forage is to be used for animal feed purposes only.

## RESTRICTIONS AND LIMITATIONS

1. **Odyssey NXT II** should only be used on sunflowers where production is not destined for export.
2. Initial transient crop yellowing may be observed after application but this is outgrown and should not affect yield. The crop should be sprayed when actively growing and not under stress. Application should not be made to crops that are behind normal stage of development or whose maturity puts them at risk for fall frost.
3. Injury to clover (red, alsike, and sweet) in the form of discoloration and stunting may be observed shortly after application. However, this injury is typically outgrown and should not affect seed yield under appropriate field management.
4. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
5. DO NOT apply more than once per year.
6. 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 BASF Agricultural Solutions Canada Inc. ("BASF") at 1-877-371-2273 or [www.agsolutions.ca](http://www.agsolutions.ca) for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

## MIXING INSTRUCTIONS

1. When applying **Odyssey NXT II**, always start with a clean sprayer. Refer to previously applied product labels for specific cleaning instructions.
2. 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.
3. Add the required amount of **Odyssey NXT II** and continue to agitate until fully dissolved.
4. If required, add the required amount of Poast Ultra Liquid Emulsifiable Herbicide, Caziva Ultra Q, Assure II Herbicide or Yuma GL Liquid EC Herbicide while agitating the spray solution.
5. After the herbicide is dissolved, continue agitation and add the required amount of MERGE Adjuvant. If excess foaming occurs, a silicone anti-foaming agent may be added (e.g. HALT).
6. Complete filling the tank to the desired level with water.

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7. If agitation is stopped for more than 5 minutes, re-suspend spray solution by full agitation prior to commencing spraying again. Between loads of **Odyssey NXT II**, check in-line and nozzle screens and rinse and clean if necessary.
8. Upon completion of spraying **Odyssey NXT II**, thoroughly flush tank, boom, hoses and in-line and nozzle screens with clean water to avoid possible injury to other crops.

## ROTATIONAL CROPS

There is the possibility of residual soil activity for **Odyssey NXT II** the year following application. Research studies have shown that the following crops may be safely planted the year following **Odyssey NXT II** application:

Barley (spring)  
Chickpeas  
**Clearfield** Canola<sup>1</sup> (canola varieties with the **Clearfield** trait)  
**Clearfield** Lentils<sup>1</sup> (lentil varieties with the **Clearfield** trait)  
Corn (field)  
Lentils  
Peas (dried field)  
Soybeans  
Tame oats  
Spring wheat

The following crops may be grown safely two years following an **Odyssey NXT II** application:

Canary seed  
Durum wheat

Research studies have shown that flax, canola and sunflower may be safely planted **2 years** following **Odyssey NXT II** application in all regions of Western Canada except the Peace River Region of Alberta. In the Peace River Region of Alberta, observe a minimum 34 months recropping interval for non-**Clearfield** canola, flax and non-**Clearfield** sunflower, and perform a field bioassay the year prior to planting to confirm normal growth of the crops. If the crops show signs of injury, delay planting by an additional year and perform an additional field bioassay the following year.

**WARNING:** Certain environmental conditions may delay the breakdown of herbicide residues in soil. These conditions include but are not limited to drought, extremes in soil pH (less than 6.5), low organic matter soils (less than 3%), extremely coarse textured (sandy) soils and excessive cold. Under these conditions, the level of phytotoxic herbicide residues present in the field the season following an application may result in an increased potential for injury to succeeding crops to occur. This potential for increased residues under these environmental conditions is not unique to any specific herbicide or herbicide group but is a property of those herbicides which persist in the soil and are dependent on soil microbial activity and other non-microbial processes (e.g., hydrolysis) to breakdown.

If drought conditions are experienced between June 1 and September 1 in the year of application, delay planting of tame oats by an additional year. If drought conditions are experienced between

June 1 and September 1 in the year of application, OR between June 1 and September 1 in the year following application, delay planting of canola (non-**Clearfield**) by an additional year.

In the grey, black, and dark brown soil zones, drought is defined as less than 125 mm of total precipitation between June 1 and September 1. In the brown soil zone, drought is defined as less than 125 mm of total precipitation between June 1 and September 1, OR less than 15 mm of precipitation in any month between June 1 and September 1.

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.

## RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, **Odyssey NXT II** is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to **Odyssey NXT II** 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 **Odyssey NXT II** 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 BASF at 1-877-371-2273.

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MERGE is a registered trade-mark of BASF Agricultural Solutions Canada Inc.

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*<sup>1</sup> Methods of growing plants which are resistant to certain acetohydroxyacid synthase (AHAS) herbicides are protected by Canadian Patent No. 1341465. Other applicable patents include Canadian Patent Application No. 2447445. The use of this product in the practice of patented methods could constitute patent infringement. Further information can be obtained by contacting BASF Agricultural Solutions Canada Inc. at 1-877-371-2273.*