

2012-0935  
2013-03-14

GROUP	2	HERBICIDE
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## VIPER® A HERBICIDE

For weed control in Field and Succulent Peas

**This component must only be used in the VIPER Herbicide Tank-Mix.**

Water Dispersible Granular Herbicide  
in water-soluble bags

### AGRICULTURAL

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND  
PEACE RIVER AREA OF BRITISH COLUMBIA ONLY

**GUARANTEE:** Imazamox ..... 70% a.e.

Warning, contains the allergen sulfites

**REGISTRATION NO. 30214 PEST CONTROL PRODUCTS ACT**

NET CONTENTS: 470 g (4 x 117.5 g water-soluble bags)

### WARNING - EYE IRRITANT

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

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

**DO NOT SELL INDIVIDUAL WATER-SOLUBLE BAGS SEPARATELY**

BASF Canada Inc.  
100 Milverton Drive, 5<sup>th</sup> Floor  
Mississauga, Ontario  
L5R 4H1

1-877-371-2273

VIPER® is a registered trademark of BASF.

### PRECAUTIONS

**KEEP OUT OF REACH OF CHILDREN.**

DO NOT APPLY BY AIR.

Skin irritant.

WARNING - EYE IRRITANT

May cause eye damage.

Wear a long-sleeved shirt and long pants during all activities, and wear chemical-resistant gloves and goggles or face shield during mixing/loading, clean-up and repair activities.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).

**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 in a cool, dry place away from children, animals, food, feed 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**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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.

**VIPER® A HERBICIDE**

70% Water Dispersible Granular Herbicide

AGRICULTURAL

NET CONTENTS: 117.5 g

GUARANTEE: Imazamox ... 70% active (a.e.)

Warning, contains the allergen sulfites

WARNING - EYE IRRITANT

KEEP OUT OF REACH OF CHILDREN

**VIPER® HERBICIDE TANK-MIX**

For Broad-spectrum Weed Control in Field and Succulent Peas

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND PEACE RIVER AREA  
OF BRITISH COLUMBIA ONLY

**COMMERCIAL (AGRICULTURAL)**

**VIPER® A HERBICIDE**

Water Dispersible Granular Herbicide in  
water-soluble bags

**GUARANTEE:**

Imazamox ..... 70% a.e.

**VIPER® B HERBICIDE**

Liquid

**GUARANTEE:**

Bentazon..... 480 g/L

**Warning, contains the allergens soy and sulfites**

**REG. NO. 30214 PCP ACT**

**REG. NO. 30215 PCP ACT**

**WARNING – EYE IRRITANT**



**WARNING POISON  
DANGER – CORROSIVE TO EYES  
POTENTIAL SKIN SENSITIZER**

**NET CONTENTS:**

470 g (4 x 117.5 g water-soluble bags)

**NET CONTENTS: 2 x 7.23 L**

**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**

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100 Milverton Drive, 5th Floor, Mississauga, Ontario L5R 4H1  
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## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. DO NOT APPLY BY AIR.
3. Harmful or fatal if swallowed or inhaled. Do not take internally.
4. Corrosive to the eye. Do not get in eyes.
5. Avoid inhalation of vapour, dust or spray mist and contact with eyes, skin or clothing. Potential skin sensitizer.
6. Wash thoroughly after handling and before eating, drinking or smoking.
7. Wear protective equipment and clothing, including: goggles or face shield, approved respirator, chemical resistant gloves (rubber, PVC, neoprene or nitrile), hat, long-sleeved shirt, long pants and rubber boots, during mixing/ loading, cleanup and repair activities.
8. If clothing becomes contaminated, remove and wash separately from household laundry before re-use.
9. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.
10. DO NOT enter or allow worker entry into treated areas for 12 hours following application.
11. Clean spray equipment thoroughly after use.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).

## 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**

This product is highly toxic to non-target plants. 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) or the water table is shallow.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted or fine textured such as clay). Avoid application of this product 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.

## **STORAGE**

1. Store above 5°C in original, tightly closed container.
2. Do not ship or store near food, feed, seed and fertilizers.
3. Store in cool, dry, locked, well-ventilated area without floor drain.
4. Keep unused water-soluble bags in resealed original container.
5. Keep water-soluble bags dry at all times.
6. Keep water-soluble bags out of rain.
7. Keep from freezing.

## DISPOSAL

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.

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.

## DIRECTIONS FOR USE

**VIPER Herbicide Tank-Mix** is a selective herbicide that can be applied as an early post-emergence treatment in field and succulent peas for broad-spectrum weed control.

Cool weather conditions or drought will delay herbicidal activity and if prolonged, may result in poor weed control. Use of **VIPER Herbicide Tank-Mix** in hot, humid weather may result in temporary leaf yellowing, leaf flecking, bronzing or burning. The crop usually outgrows this condition within 10 days.

DO NOT apply **VIPER Herbicide Tank-Mix** to field peas that have been subjected to stress from conditions such as hail damage, flooding, drought, hot, humid weather, widely fluctuating temperature conditions, prolonged cold weather or injury from prior herbicide applications, as crop injury may result.

Apply using ground equipment only. DO NOT APPLY BY AIR.

DO NOT apply more than once per year.

**CAUTION: Do not graze the treated crops or cut for hay; sufficient data are not available to support such use.**

Pre-harvest Interval: Field peas can be harvested 60 days after treatment. Succulent peas can be harvested 40 days after treatment.



**DO NOT** apply **VIPER Herbicide Tank-Mix** when weather conditions may cause spray drift from treated areas to adjacent crops.

Lentils, adzuki and mung beans, cucumbers, sugar beets and sunflowers can be injured by **VIPER Herbicide Tank-Mix**.

Overspray or drift to sensitive habitats should be avoided. A buffer zone of 11 metres is required between the downwind point of direct application and the closest edge of (1) sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, pastures, rangelands, and shrublands), (2) sensitive aquatic habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) and (3) estuarine or marine habitats.

**DO NOT** apply during periods of dead calm or when winds are gusty.

**DO NOT** apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.

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.

## **BROADLEAF WEED AND GRASS CONTROL IN FIELD PEAS**

**VIPER Herbicide Tank-Mix** applied as directed will control:

Barnyard grass	Volunteer barley
Cleavers (including Group 2 resistant biotypes)*	Volunteer canary seed
Cow cockle	Volunteer canola (CLEARFIELD and non-CLEARFIELD tolerant canola)
Green foxtail	Volunteer durum wheat
Green smartweed	Volunteer spring wheat (non-CLEARFIELD tolerant wheat)
Japanese brome grass*	Volunteer tame oats
Kochia*	Wild buckwheat*
Lamb's-quarters	Wild mustard (including Group 2 resistant)
Lentils (including CLEARFIELD® Lentils)	Wild oats
Persian dandelion	Yellow foxtail
Redroot pigweed	
Round-leaved mallow*	
Russian thistle	
Shepherd's purse	
Stinkweed	

\* = suppression only

Timing	Early post-emergence
Rate	29 g/ha <b>VIPER A Herbicide</b> + 894 mL/ha <b>VIPER B Herbicide</b> + 2 L/ha nitrogen source** (UAN 28%)
Water Volume	100 L/ha
Remark	Application should be made from the 3 to 6 node stage of field peas 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.

\*\* A reduction in grass control can be observed without the addition of a nitrogen source (UAN 28%).

#### NOTE TO USER

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than BASF Canada and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. BASF Canada itself makes no representation or warranty with respect to performance (efficacy) and crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerances arising, and agree to hold BASF Canada harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

#### Broadspectrum Weed Control in Succulent Peas

Timing	Early post-emergence
Rate	29 g/ha <b>VIPER A Herbicide</b> + 894 mL/ha <b>VIPER B Herbicide</b> + 2 L/ha nitrogen source** (UAN 28%)
Water Volume	100 L/ha
Weeds Controlled	Refer to the Broadleaf Weed and Grass Control in Field Peas section of this label.
Remark	Application should be made from 3 – 6 nodes and after weeds have emerged. Apply when broadleaf weeds are from the cotyledon to 4-leaf stage and grassy weeds are 1-4 true leaves or early tillering.. Initial transient crop yellowing may be observed after application but this is outgrown and should not affect yield.  Do not spray under hot humid conditions to avoid any bronzing of the pea pods.  Do not harvest the treated crop within 40 days of application.

Warning	Since not all types of succulent peas have been tested, first application should be limited to a small area or consult your seed supplier or BASF Business Representative for more information.
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\*\* A reduction in grass control can be observed without the addition of a nitrogen source (UAN 28%).

Succulent pea varieties may vary in their tolerance to herbicides, including to **VIPER Herbicide Tank-Mix**. Some varieties are more susceptible to herbicide injury which can result in delayed maturity. Since not all succulent pea varieties have been tested for tolerance to **VIPER Herbicide Tank-Mix**, first use of **VIPER Herbicide Tank-Mix** should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice.

## MIXING INSTRUCTIONS

1. Use 100 L/ha of water.
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 **VIPER A Herbicide** soluble bag(s) directly into the sprayer through the tank opening.
5. Add **VIPER B Herbicide** followed by recommended amount of nitrogen source (UAN 28%).
6. Agitate for at least ten minutes to dissolve the herbicide. After the herbicide is dissolved, continue agitation.
7. 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.
8. Between loads of **VIPER Herbicide Tank-Mix**, check in-line and nozzle screens and rinse clean if necessary.
9. Upon completion of spraying **VIPER Herbicide 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

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

Initial crop injury to non-CLEARFIELD 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  
CLEARFIELD Canola (e.g., canola varieties with the CLEARFIELD trait)

Non-CLEARFIELD canola  
Lentils  
Spring wheat  
Durum wheat  
Spring barley  
Sunflower  
Tame oats  
Flax  
Chickpeas  
CLEARFIELD Sunflowers (e.g., sunflower varieties with the CLEARFIELD trait)

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.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **VIPER Herbicide Tank-Mix** is both a Group 2 and a Group 6 herbicide. Any weed population may contain or develop plants naturally resistant to **VIPER Herbicide Tank-Mix** and other Group 2 and Group 6 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 **VIPER Herbicide Tank-Mix** or other Group 2 and 6 herbicides 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.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- 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 or to report suspected resistance, contact BASF at 1-877-371-2273 or at [www.agsolutions.ca](http://www.agsolutions.ca).

CLEARFIELD® is a registered trademark of BASF.

®All other products listed are registered trademarks of their respective companies.