

2017-0241
2018-04-24

GROUP	2	6	HERBICIDE
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VIPER® ADV

For weed control in field and succulent peas, soybeans, dry beans, established red and alsike clover for seed production and seeding and established alfalfa for seed production

For sale for use in the Prairie Provinces and Peace River Region of British Columbia Only

HERBICIDE

SOLUTION

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT: Imazamox 20 g/L
Bentazon (present as the sodium salt)..... 429 g/L a.e.

Warning, contains the allergen soy

REGISTRATION NO. 30626

PEST CONTROL PRODUCTS ACT

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



WARNING

POISON

**EYE IRRITANT
POTENTIAL SKIN SENSITIZER**

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

NET CONTENTS: 1 L - 1000 L, Bulk

BASF Canada Inc.
100 Milverton Drive, 5th Floor
Mississauga, Ontario
L5R 4H1
1-877-371-2273

VIPER is a registered trade-mark of BASF Agrochemical Products B.V.,
used with permission by BASF Canada Inc.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. **DO NOT** take internally. Harmful or fatal if swallowed.
3. **DO NOT** get in eyes or on skin. Causes eye irritation.
4. Potential skin sensitizer.
5. 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.
6. Wear a long-sleeved shirt, long pants and chemical resistant gloves during mixing, loading, application, clean-up and repair. In addition, wear goggles or face shield during mixing and loading.
7. 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.
8. **DO NOT** apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) or to estuarine/marine habitats.
9. Do not enter or allow workers entry into treated areas during the restricted entry interval (REI) of 12 hours.
10. 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.

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 continuing 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 plants. Observe the buffer zones and precautionary measures 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 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.

STORAGE

1. Store the product in original, tightly-closed container and do not allow water to be introduced into this container.
2. **DO NOT** ship or store the product near food, feed, seed or fertilizers.
3. Store the product in a cool, dry, locked, well-ventilated area without floor drain.
4. Herbicides should be shipped or stored separately from other pesticides to avoid cross-contamination.

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.

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.

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.

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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GENERAL INFORMATION

VIPER ADV combines the two active ingredients: imazamox, belonging to herbicide mode of action Group 2, and bentazon belonging to the herbicide mode of action Group 6. Imazamox is a selective herbicide that when applied as an early post-emergence treatment may be absorbed through both the roots and foliage. Susceptible weeds stop growing and eventually die. Bentazon provides selective post-emergence control of many broadleaf weeds. Bentazon does not control grasses. Bentazon is a herbicide with mainly contact action. Uptake into the plant occurs primarily through the leaves. Thorough coverage of foliage is important for consistent weed control. Failure to penetrate crop or weed leaf canopies with the spray will result in incomplete control of small weeds growing underneath.

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

REGISTERED CROPS

VIPER ADV will provide broad-spectrum weed control of most annual grasses and broadleaf weeds in field and succulent peas, soybeans, dry beans, established red and alsike clover for seed production and seedling and established alfalfa for seed production.

DIRECTIONS FOR USE

APPLICATION INSTRUCTIONS

Field Peas and Soybeans

Timing	Early post-emergence
Rate	1.0 L/ha of VIPER ADV + 2 L/ha nitrogen source* (UAN 28%)
Water Volume	100 L/ha
Weeds Controlled	VIPER ADV will provide control of broadleaf and grass weeds as listed in the BROADLEAF WEED AND GRASS CONTROL section of this label.
Pre-harvest Interval	60 days
Remark	Application should be made from the 3 - 6 node stage of field peas and the cotyledon to 4-leaf stage of soybeans 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 - 4 true leaf or early tillering. For field peas, initial transient crop yellowing may be observed after application but this is outgrown and should not affect yield. DO NOT make more than one application per season.

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

Roundup Ready Soybean Varieties only

Timing	Early post-emergence
Rate	1.0 L/ha of VIPER ADV + 900 – 1800 g a.e./ha glyphosate ¹ A nitrogen source (UAN 28%) is not required for control of volunteer glyphosate tolerant canola or weeds listed on the glyphosate label.
Water Volume	100 L/ha
Weeds Controlled	Volunteer glyphosate tolerant canola Consult the glyphosate label for weeds controlled by glyphosate. For additional weeds controlled by VIPER ADV , include UAN 28% at 2 L/ha.
Pre-harvest Interval	60 days
Remark	Application should be made from the cotyledon to 4-leaf stage of soybeans and after weeds have emerged. Apply when volunteer canola is from the cotyledon to 4-leaf stage. Consult the glyphosate label for appropriate staging of weeds controlled by glyphosate. Read and observe all label directions, including rates, restrictions and grazing limitations for each product in the tank mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.
Warning	Apply this tank mix to Roundup Ready Soybean Varieties only, i.e. varieties with the Roundup Ready gene. SOYBEAN VARIETIES WHICH ARE NOT DESIGNATED AS GLYPHOSATE TOLERANT WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

¹ Consult the glyphosate label for rate and weeds controlled by glyphosate. Use only glyphosate products registered for post-emergence application to glyphosate tolerant soybean. A rate of 900 to 1800 g a.e./ha is equivalent to 1.67 to 3.33 L/ha of Roundup WeatherMAX with Transorb 2 Technology Liquid Herbicide (540 g a.e./L). Other glyphosate formulations may require a rate calculation adjustment according to product guarantee.

Dry Edible Beans (all types of the species *Phaseolus vulgaris*¹)

VIPER ADV may be topped up with application of **BASAGRAN® FORTE** as below for control of additional weeds.

Timing	Early post-emergence
Rate	1.0 L/ha of VIPER ADV + 0.36 L/ha of BASAGRAN FORTE + 2 L/ha nitrogen source ² (UAN 28%)
Water Volume	100 L/ha

Weeds Controlled	VIPER ADV will provide control of broadleaf and grass weeds as listed in the BROADLEAF WEED AND GRASS CONTROL section of this label.
Pre-harvest Interval	60 days
Remark	Application should be made after 1 st trifoliate leaf has fully expanded up to the 2 nd trifoliate leaf stage of the dry bean 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. DO NOT make more than one application per season.
Warning	Only the following dry bean types have been tested and demonstrate acceptable tolerance: Pinto, pink, red mexican, cranberry, black, great northern and navy.

Read and observe all label directions, including rates, restrictions and grazing limitations for each product in the tank mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

NOTE TO USER

The DIRECTIONS FOR USE for this product for the uses described above 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 above.

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 above.

- 1 *Dry common bean varieties may vary in their tolerance to herbicides, including to **VIPER ADV**. In particular, white (navy) beans are more susceptible to herbicide injury which can result in delayed maturity. Since not all dry common bean varieties have been tested for tolerance to **VIPER ADV**, first use of **VIPER ADV** should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice or consult your seed supplier or BASF Business Representative for more information.*
- 2 *Nitrogen source: A reduction in grass control can be observed without the addition of a nitrogen source (UAN 28%).*

NOTE TO USER - READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

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.

Established Red and Alsike Clover for Seed Production Only

Timing	Early post-emergence
Rate	1.0 L/ha of VIPER ADV + 2 L/ha nitrogen source ¹ (UAN 28%)
Water Volume	100 L/ha
Weeds Controlled	VIPER ADV will provide control of broadleaf and grass weeds as listed in the BROADLEAF WEED AND GRASS CONTROL section of this label.
Remark	DO NOT make more than one application per year. Application should be made before the crop canopy closes, prior to flowering, and when weeds are actively growing. 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. Crop injury may occur under hot, humid conditions. Speed of recovery will be influenced by growing conditions and weed control. Some leaf scorch may appear but the effect is transient and will outgrow within 3-4 weeks.

¹ A reduction in grass control can be observed without the addition of a nitrogen source (UAN 28%).

Succulent Peas

Timing	Early post-emergence
Rate	1.0 L/ha of VIPER ADV + 2 L/ha nitrogen source* (UAN 28%)
Water Volume	100 L/ha
Weeds Controlled	VIPER ADV will provide control of broadleaf and grass weeds (except for sow thistle (annual and perennial)) as listed in the BROADLEAF WEED AND GRASS CONTROL section of this label.
Pre-harvest Interval	40 days
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.
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.

* 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 ADV**. 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 ADV**, first use of **VIPER ADV** should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice.

Seedling and Established Alfalfa for Seed Production Only

For broad-spectrum weed control in alfalfa, **VIPER ADV** must be topped up with an application of **BASAGRAN FORTE** at a rate of 360 mL/ha as indicated below.

Timing	Early post-emergence
Rate	1.0 L/ha of VIPER ADV + 360 mL/ha of BASAGRAN FORTE + 2 L/ha nitrogen source ¹ (UAN 28%) For top-growth control of Canada thistle, apply an application of BASAGRAN FORTE 7-15 days later at a rate of 1.75 L/ha.
Water Volume	100 L/ha
Weeds Controlled	Refer to the BROADLEAF WEED AND GRASS CONTROL section of this label for weeds controlled. The addition of 360 mL/ha of Basagran Forte to VIPER ADV will provide control of the following additional weeds: Canada thistle (top-growth suppression)* Prostrate pigweed (suppression only) Spiny annual sowthistle (suppression only) Storks bill *For top growth control, an application of BASAGRAN FORTE 7-15 days later at a rate of 1.75 L/ha is required.
Remark	Apply as an early post-emergence treatment when weeds are actively growing. Application should be made 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. Crop must be in the tolerant stage as indicated below: Seedling alfalfa: Tolerant after third trifoliate stage. For seedling alfalfa grown for seed, apply prior to bud formation. Established Alfalfa: Tolerant before crop canopy closes, prior to flowering. Crop injury may occur under hot, humid conditions. Speed of recovery will be influenced by growing conditions and weed control. Some leaf scorch may appear but the effect is transient and will outgrow within 3-4 weeks. CAUTION: Do not graze the treated crops or cut for hay; sufficient data are not available to support such use.

¹ 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 above 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 above.

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 above.

BROADLEAF WEED AND GRASS CONTROL

VIPER ADV applied as an early post-emergence treatment at a rate of 1.0 L/ha + 2 L/ha nitrogen source (UAN 28%) will control weeds as listed below:

• Barnyard grass
• Cleavers* (including Group 2 resistant biotypes)
• Cow cockle
• Green foxtail
• Green smartweed
• Hemp nettle*
• Japanese brome grass*
• Kochia* (including Group 2 resistant biotypes)
• Lamb's-quarters
• Lentils (including Clearfield ® Lentils ¹)
• Persian dandelion
• Redroot pigweed
• Round-leaved mallow*
• Russian thistle
• Shepherd's purse
• Sowthistle*, annual
• Sowthistle**, perennial
• Stinkweed
• Volunteer barley
• Volunteer canary seed
• Volunteer canola (Clearfield and non- Clearfield tolerant canola)
• Volunteer durum wheat
• Volunteer spring wheat (non- Clearfield tolerant wheat)
• Volunteer tame oats
• Wild buckwheat*
• Wild mustard (including Group 2 resistant)
• Wild oats
• Yellow foxtail

* = suppression only

**= top growth suppression only

VIPER ADV + BASAGRAN FORTE applied as an early post-emergence treatment on dry edible beans at a rate of 1.0 L/ha + 0.36 L/ha **BASAGRAN FORTE** + 2 L/ha nitrogen source (UAN 28%) will provide control of the following weeds in addition to those listed above:

• Prostate pigweed*
• Spiny annual sowthistle*
• Storks bill

* = suppression only

MIXING INSTRUCTIONS

1. When applying **VIPER ADV**, always start with a clean sprayer. Thoroughly clean the sprayer by flushing the system with water containing detergent. Refer to previously applied product labels for specific cleaning instructions.
2. Fill clean spray tank three-quarters of the required amount of clean water and start agitation.
3. Add the correct amount of **VIPER ADV**. Continue to agitate.
4. Add the correct amount of **BASAGRAN FORTE** for dry beans. Continue to agitate.
5. Add the correct amount of the nitrogen source while continuing agitation.
6. Continue agitation while filling the spray tank with the remaining amount of water.
7. Maintain continuous and constant agitation throughout application until spraying is complete.
8. After any break in spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to remix the spray materials. Do not allow the mixture to sit over night.
9. If an oil film starts to build up in the tank, drain it and clean the tank with strong detergent solution.
10. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent. Thoroughly flush tank, boom, hoses and in-line and nozzle screens with clean water to avoid possible injury to other crops.

Dispose of all rinsings in accordance with provincial regulations.

SPRAYING INSTRUCTIONS

Select proper nozzle to avoid spraying fine mist. For best results, use sprayers equipped with flat fan or similar nozzles to ensure coverage. Apply in a spray volume of 100 L/ha and at a pressure of 275 kPa. For applications to dense weed infestations and thick canopies, use the higher spray volume. Better coverage of the product results in enhanced control of weeds.

Keep bypass line on or near bottom of tank to minimize foaming. Use 16 mesh suction screens, 50 mesh screens elsewhere on sprayer.

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
Soybeans
Clearfield Canola¹ (e.g., canola varieties with the **Clearfield** trait)
Non-**Clearfield** canola*
Lentils
Spring wheat
Durum wheat
Spring barley
Sunflower
Tame oats
Flax
Chickpeas
Clearfield Sunflowers¹ (e.g., sunflower varieties with the **Clearfield** trait)

*Research studies have shown that non-Clearfield canola may be safely planted the year following an application of **VIPER** ADV in all regions of Western Canada except the Northern Peace River Region of Alberta (any area in Township 100 and north, including the areas of Keg River, La Crete, Fort Vermilion and High Level). In this region, non-Clearfield canola can be grown safely the second year following an application (2 YAT).

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.

RESTRICTIONS AND LIMITATIONS

1. **DO NOT** apply when weather conditions may cause spray drift from treated fields to adjacent crops. Clean sprayer thoroughly after use to avoid damage to the next crop sprayed.
2. Apply using ground equipment only. **DO NOT APPLY BY AIR.**
3. **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
4. **DO NOT** apply directly to water. **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
5. **DO NOT** graze the treated dry bean and field pea crops or cut for hay; sufficient data are not available to support such use.
6. **DO NOT** graze treated soybeans or cut for hay within 20 days of application.
7. **DO NOT** treat any crops not listed on this label.

8. **DO NOT** apply to any crops 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.
9. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational area is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
10. 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 at 1-877-371-2273 or www.agsolutions.ca 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 BASF.

WARNING

1. **DO NOT** apply **VIPER ADV** when weather conditions may cause spray drift from treated areas to adjacent crops.
2. Lentils, adzuki and mung beans, cucumbers, sugar beets and sunflowers can be injured by **VIPER ADV**.

SPRAY DRIFT MANAGEMENT FOR GROUND APPLICATIONS

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 by air.

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).

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of Terrestrial Habitat
Field sprayer	Field and succulent peas, soybeans, dry beans, established red and alsike clover, and alfalfa	1

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.

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency website.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **VIPER ADV** is both a Group 2 and a Group 6 herbicide. Any weed population may contain or develop plants naturally resistant to **VIPER ADV** and other Group 2 and 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 ADV** or other Group 2 and 6 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 or to report suspected resistance, contact BASF at 1-877-371-2273 or at www.agsolutions.ca.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. **DO NOT** take internally. Harmful or fatal if swallowed.
3. **DO NOT** get in eyes or on skin. Causes eye irritation.
4. Potential skin sensitizer.
5. 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.
6. Wear a long-sleeved shirt, long pants and chemical resistant gloves during mixing, loading, application, clean-up and repair. In addition, wear goggles or face shield during mixing and loading.
7. 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.
8. **DO NOT** apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) or to estuarine/marine habitats.

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 continuing 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 plants. Observe the buffer zones and precautionary measures 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 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.

STORAGE

1. Store the product in original, tightly-closed container and do not allow water to be introduced into this container.
2. **DO NOT** ship or store the product near food, feed, seed or fertilizers.
3. Store the product in a cool, dry, locked, well-ventilated area without floor drain.
4. Herbicides should be shipped or stored separately from other pesticides to avoid cross-contamination.

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.

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.

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.

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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¹Methods of growing plants which are resistant to certain acetohydroxyacid synthase (AHAS) herbicides are protected by Canadian Patent No. 1341465. The use of this product in the practice of patented methods could constitute patent infringement. The purchase of this product conveys no license to the purchaser to practice the patented methods. Further information can be obtained by contacting BASF Canada at 1-877-371-2273