

Container

GROUP	15	27	HERBICIDE
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ARMEZON® PRO

HERBICIDE

EMULSIFIABLE CONCENTRATE

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT: Dimethenamid-P 630 g/L
Topramezone..... 12.5 g/L

REGISTRATION NO. 32148

PEST CONTROL PRODUCTS ACT

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

CAUTION – EYE AND SKIN IRRITANT

POTENTIAL SKIN SENSITIZER

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 0.1 L to 1000 L

BASF Canada Inc.
5025 Creekbank Road
Building A, 2nd Floor
Mississauga, Ontario L4W 0B6
1-877-371-2273

ARMEZON is a registered trade-mark of BASF SE, used under license by BASF Canada Inc.

PRECAUTIONS

Make only one application of **ARMEZON PRO** per year.

1. **KEEP OUT OF REACH OF CHILDREN.**
2. May irritate skin and eyes. Avoid contact with skin and eyes.
3. POTENTIAL SKIN SENSITIZER. **DO NOT** take internally. Harmful if swallowed.
4. **DO NOT** APPLY BY AIR.
5. During mixing, loading, application, clean-up and repair wear a long sleeved shirt, long pants, coveralls, chemical resistant gloves and shoes plus socks. In addition, wear protective eyewear (face shield or goggles) while mixing and loading.
6. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.
7. Do not apply directly to water or areas where surface water is present.
8. As this pesticide is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.
9. Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
10. Do not apply this product through any type of irrigation system.
11. Do not contaminate domestic or irrigation water. Thoroughly clean application equipment. (See SPRAY EQUIPMENT CLEANING).
12. 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.

FIRST AID

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

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

If swallowed, call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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

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

TOXICOLOGICAL INFORMATION

Treat symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

ENVIRONMENTAL HAZARDS

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.

As this product contains an aromatic petroleum distillate which is moderately to highly toxic to aquatic organisms, avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

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 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.

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

TOXIC to small wild mammals.

STORAGE

1. Store **ARMEZON PRO** in original container only.
2. Store **ARMEZON PRO** in a cool, dry place.
3. Do not contaminate water, food or feed by storage.
4. Protect from freezing. If this product has been stored where freezing temperatures have occurred, allow product to thaw and agitate or mix contents of container well before use.

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 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.

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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.

Booklet

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GENERAL INFORMATION

ARMEZON PRO is to be applied as a pre-emergent or post-emergent treatment to field corn (conventional and herbicide tolerant hybrids) and will control most annual grass weeds and certain broadleaf weeds.

When applied pre-emergent to weeds and field corn, **ARMEZON PRO** is applied in tank-mix combination with atrazine for early season residual control of labelled weeds.

When emerge weeds are present, **ARMEZON PRO** is applied to corn in tank-mix combination with atrazine and adjuvant(s), glyphosate or atrazine and glyphosate.

SAFETY AND HANDLING

PRECAUTIONS

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

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STORAGE

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Returnable-Refillable Containers

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER

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

DIRECTIONS FOR USE

ARMEZON PRO will control most annual grass weeds and certain broadleaf weeds in field corn (conventional and herbicide tolerant hybrids). When used as directed, **ARMEZON PRO** provides early residual weed control, control of emerged weeds and provides residual control of late flushing weeds.

For best performance of emerged broadleaf and grassy weeds, spray before the weeds exceed the labelled maximum leaf stage.

Temperatures and moisture conditions for active plant growth are important for optimum **ARMEZON PRO** activity.

Rainfall is required to activate the residual properties of **ARMEZON PRO**. If drought conditions persist after the application of **ARMEZON PRO**, control of later flushing annual weeds may not be adequate.

ARMEZON PRO is effective on biotypes of species listed that may be resistant to glyphosate, triazines or ALS herbicide products.

ARMEZON PRO should be applied during favourable growing conditions for optimum crop tolerance and weed control. Crops under environmental stress are more likely to show injury from any herbicide application. Rarely, plants under these conditions treated with **ARMEZON PRO** may show some transient bleaching of the portion of the leaves intercepting the spray application. These symptoms are transient and occur infrequently. Growth is not affected and normal plant appearance is seen within 1 to 2 weeks.

SPRAY ADDITIVES

For best adherence and foliar uptake by emerged weeds, **ARMEZON PRO** may require the addition of spray additives to the spray solution. Consult the Application Direction tables for rates and recommendations.

FIELD CORN

ARMEZON PRO is to be applied as a pre-emergent or post-emergent treatment to field corn (conventional and herbicide tolerant hybrids).

When applied pre-emergent to weeds and field corn, **ARMEZON PRO** is applied in tank-mix combination with atrazine for early season residual control of labelled weeds.

When emerged weeds are present, **ARMEZON PRO** is applied to corn in tank-mix combination with atrazine and adjuvant(s), glyphosate or atrazine and glyphosate.

Glyphosate as a tank mix partner will allow for the control of weeds in addition to those on the **ARMEZON PRO** label; refer to the glyphosate label for additional information.

Refer to the atrazine and glyphosate labels for precautions, restrictions and limitations. Always use in accordance with the most restrictive label restrictions and precautions.

Tankmix with atrazine

Apply **ARMEZON PRO** pre-emergent to field corn and pre-emergent to weeds for early season residual control of labelled weeds. This treatment is to be used when there is a planned in-crop application of another registered herbicide.

Refer to the atrazine label for precautions, restrictions and limitations. Always use in accordance with the most restrictive label restrictions and precautions.

Herbicide	Rate/hectare	Weeds Controlled
ARMEZON PRO + Aatrex 480 ¹	1 L + 500 g ai/ha	Green foxtail Yellow foxtail Large crabgrass Barnyard grass Old witchgrass Redroot pigweed ² Common ragweed ² Lamb's-quarters ² Wild mustard Stinkweed

¹ A rate of 500 g ai/ha is equivalent to 1.04 L/ha of Aatrex 480.

² Does not include biotypes that may be resistant to triazine herbicide products.

Tankmix with atrazine and adjuvant(s)

Apply **ARMEZON PRO** from pre- emergence up to and including the 3 leaf stage of field corn and when broadleaf weeds are at the 1 to 8 leaf stage and grass weeds are at the 1 to 4 leaf stage.

Refer to the atrazine label for precautions, restrictions and limitations. Always use in accordance with the most restrictive label restrictions and precautions.

Herbicide	Rate/hectare	Weeds Controlled	Weeds Suppressed
ARMEZON PRO + Aatrex 480 ¹ + MERGE ² OR Assist ³ + UAN ⁴	1 L + 500 g a.i./ha	Common lamb's-quarters Lady's-thumb Common ragweed Eastern black nightshade Wild mustard Redroot pigweed Green pigweed Green foxtail Yellow foxtail Large crabgrass Barnyard grass Fall panicum ⁵ Old witchgrass	Velvetleaf Common chickweed

¹ A rate of 500 g ai/ha is equivalent to 1.04 L/ha of Aatrex 480.

² Use MERGE Adjuvant at 0.25% v/v, i.e. 2.5 litres per 1000 L spray solution.

³ Use at 1.25% v/v, i.e. 12.5 litres per 1000 L spray solution.

⁴ Use at 1.25% v/v, i.e. 12.5 litres per 1000 L spray solution.

⁵ Apply before fall panicum exceeds the 2-leaf growth stage. If applied later, this weed will only be suppressed.

Tankmix with glyphosate

Apply **ARMEZON PRO** from post-emergence up to and including the 8 leaf stage of field corn and when broadleaf weeds are at the 1 to 8 leaf stage and grass weeds are at the 1 to 4 leaf stage. Refer to glyphosate label for additional flexibility in weed stages at the time of application.

WARNING

Apply glyphosate on glyphosate tolerant field corn varieties only.

APPLICATION TO EMERGED CORN VARIETIES WHICH ARE NOT DESIGNATED AS GLYPHOSATE TOLERANT (i.e. varieties with Roundup Ready gene) WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

Refer to the glyphosate label for precautions, restrictions and limitations. Always use in accordance with the more restrictive label restrictions and precautions.

Herbicide ¹	Rate per hectare	Weeds controlled	Weeds suppressed
ARMEZON PRO + glyphosate ²	1 L + 900 g a.e.	Common ragweed Eastern black nightshade Volunteer canola ⁴ Kochia ⁵ Wild mustard Giant foxtail Green foxtail Yellow foxtail Large crabgrass Smooth crabgrass Barnyard grass Fall panicum ³ Old witchgrass	Common chickweed Common lamb's-quarters Lady's-thumb Velvetleaf
		Refer to the glyphosate label for additional weed species controlled or suppressed.	

¹ Spray additives are not required.

² Only use glyphosate products present as isopropylamine salt or potassium salt. A rate of 900 g ae/ha is equivalent to 1.67 L/ha of Roundup WeatherMax or 2.5 L/ha of Roundup Transorb Liquid Herbicide.

³ Refer to the glyphosate label for weed staging information.

⁴ All types including glyphosate tolerant. Apply before volunteer canola exceeds the 6-leaf stage.

⁵ All types including glyphosate-resistant. Apply to kochia less than 10 cm.

Tankmix with atrazine plus glyphosate

Apply **ARMEZON PRO** from pre-emergence up to and including the 8 leaf stage of field corn and when broadleaf weeds are at the 1 to 8 leaf stage and grass weeds are at the 1 to 4 leaf stage. Refer to glyphosate label for additional flexibility in weed stages at the time of application.

WARNING

For conventional field corn hybrids, this treatment is to be applied pre-emergent only. **APPLICATION TO EMERGED CORN VARIETIES WHICH ARE NOT DESIGNATED AS GLYPHOSATE TOLERANT (i.e. varieties with Roundup Ready gene) WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.**

Application to glyphosate tolerant corn varieties may be made pre-emergent or post-emergent.

Refer to the atrazine and glyphosate labels for precautions, restrictions and limitations. Always use in accordance with the more restrictive label restrictions and precautions.

Herbicide ¹	Rate per hectare	Weeds controlled	Weeds suppressed
ARMEZON PRO + Aatrex 480 ² + glyphosate ³	1 L + 500 g a.i. + 900 g a.e.	Common lamb's-quarters Lady's-thumb Common ragweed Eastern black nightshade Wild mustard Redroot pigweed Green pigweed Green foxtail Yellow foxtail Large crabgrass Barnyard grass Fall panicum ⁴ Old witchgrass	Velvetleaf Common chickweed
		Refer to the glyphosate label for additional weed species controlled or suppressed.	

¹ Spray additives are not required.

² A rate of 500 g ai/ha is equivalent to 1.04 L/ha of Aatrex 480.

³ Only use glyphosate products present as isopropylamine salt or potassium salt. A rate of 900 g ae/ha is equivalent to 1.67 L/ha of Roundup WeatherMax or 2.5 L/ha of Roundup Transorb Liquid Herbicide.

⁴ Refer to the glyphosate label for weed staging information.

Tankmix with MARKSMAN Herbicide plus glyphosate

Tankmixing **ARMEZON PRO** with MARKSMAN Herbicide and glyphosate will provide residual control of velvetleaf and extended residual control of lamb's-quarter's, redroot pigweed and common ragweed, in addition to weeds controlled by glyphosate.

Apply from emergence up to and including the 5 leaf stage of field corn and when broadleaf weeds are at the 1 to 8 leaf stage and grass weeds are at the 1 to 4 leaf stage. Refer to glyphosate label for additional flexibility in weed stages at the time of application.

WARNING

Apply glyphosate on glyphosate tolerant field corn varieties only, i.e. varieties with the Roundup Ready gene. **APPLICATION TO EMERGED CORN VARIETIES WHICH ARE NOT DESIGNATED AS GLYPHOSATE TOLERANT (i.e. varieties with Roundup Ready gene) WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.**

Refer to the MARKSMAN Herbicide and glyphosate labels for precautions, restrictions and limitations. Always use in accordance with the more restrictive label restrictions and precautions.

Herbicide ¹	Rate per hectare	Weeds controlled	Weeds suppressed
ARMEZON PRO + MARKSMAN Herbicide + glyphosate ²	1 L + 2.5 L/ha + 900 g a.e.	Common lamb's-quarters Lady's thumb Common ragweed Eastern black nightshade Wild mustard Redroot pigweed Green pigweed Green foxtail Yellow foxtail Large crabgrass Barnyard grass Fall panicum ³ Old witchgrass Velvetleaf	Common chickweed
		Refer to the glyphosate label for additional weed species controlled or suppressed.	

¹ Spray additives are not required.

² Only use glyphosate products present as isopropylamine salt or potassium salt. A rate of 900 g ae/ha is equivalent to 1.67 L/ha of Roundup WeatherMax or 2.5 L/ha of Roundup Transorb Liquid Herbicide.

³ Refer to the glyphosate label for weed staging information.

CROP HARVEST

Do not apply **ARMEZON PRO** within 80 days of harvest.

DO NOT graze or feed the treated corn forage, silage, fodder or grain to livestock for at least 45 days after an application of **ARMEZON PRO**.

ROTATIONAL CROPPING

In the event of crop failure in fields treated with **ARMEZON PRO**, only field corn can be planted as a rescue crop. A second application of **ARMEZON PRO** cannot be made in the rescue crop.

Fields treated with **ARMEZON PRO** can be seeded to winter wheat at a minimum four months after application and can be seeded to spring wheat, field corn, canola, lentils, potatoes, navy (white) beans, soybeans, peas and alfalfa the following year.

Conduct a field bioassay (a test strip grown to maturity) the year before growing any other crop.

Refer to the tank mix partner's product label for any additional recropping restrictions.

APPLICATION DIRECTIONS

Uniformly apply with properly calibrated ground equipment using a minimum of 100 L water per hectare. Select proper nozzle for optimum spray coverage and to avoid driftable fines. Keep the by-pass line on or near the bottom of the tank to minimize foaming. Use 16 mesh suction screen, 50 mesh elsewhere on sprayer.

DO NOT apply when wind speeds exceed 8 km/h or when drift near desirable plants is possible.

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.

SPRAY DRIFT PRECAUTIONS

ARMEZON PRO may cause injury to desirable trees and plants. Follow these precautions when spraying in the vicinity of sensitive crops:

1. Do not spray **ARMEZON PRO** if wind velocity exceeds 8 km/h. Leave an adequate buffer zone between spraying area and sensitive plants.
2. Use high-volume droplets under low pressure. Use coarse droplets since they are less likely to drift than fine droplets. Follow nozzle manufacturer's directions to ensure these conditions are met.
3. 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, application equipment and sprayer settings.

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), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	Field corn	1	1	1	0	5

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

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

MIXING INSTRUCTIONS AND ORDER

ARMEZON PRO Tank Mixes:

1. When applying **ARMEZON PRO**, always start with a clean sprayer. Thoroughly clean the sprayer following sprayer clean-up recommendations on the previous product label.
2. Fill the clean spray tank half full with clean water and start agitation system.
3. If using a wettable powder or water dispersible granule tank mix partner add the correct amount to the tank and continue agitation until thoroughly dispersed.
4. If required, add the correct amount of liquid or solution herbicide tank mix partner.
5. Add the correct amount of **ARMEZON PRO** while continuing agitation.
6. If required, when tank mixing with glyphosate: If adding a glyphosate formulation with full load of surfactant, add the correct amount to the tank after the addition of **ARMEZON PRO**. If adding a glyphosate formulation with low load of surfactant, add the correct amount during Step 4 (i.e. prior to adding **ARMEZON PRO** into tank).
7. If required, add either MERGE Adjuvant to the spray tank or ASSIST followed by liquid fertilizer (UAN 28%), with the exception of glyphosate tank-mixes.
8. While agitating, fill the remainder of the tank with water up to the proper level.
9. Maintain continuous and constant agitation throughout application until spraying is complete.

10. After any break in spraying operation agitate thoroughly before spraying again. Check inside the tank to ensure the sprayer agitation is sufficient to remix the spray materials. Do not allow the mixture to sit overnight.
11. If an oil film starts to build up in the tank, drain it and clean the tank with strong detergent solution.

Dispose of all rinsings in accordance with provincial regulations.

For further instructions on cleaning, see SPRAY EQUIPMENT CLEANING.

SPRAY EQUIPMENT CLEANING

ARMEZON PRO with other tank mixes

Follow these steps to clean the spray equipment:

1. Thoroughly hose down the inside and outside of equipment surfaces while filling the spray tank half-full with water. Flush by operating the sprayer until the system is purged of the rinse water.
2. Use a strong detergent or commercial sprayer cleaner according to the manufacturer's directions to clean out any residues.
3. Flush the solution out of the spray tank through the boom.
4. Remove the nozzles and screens and flush the system with two tanks full of water for a full triple rinse.
5. Refer to the tank mix partner's product label for any additional cleaning instructions not included in the above steps.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that **ARMEZON PRO** is both a Group 15 and a Group 27 herbicide. Any weed population may contain plants naturally resistant to Group 15 and/or Group 27 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same fields.

To delay herbicide resistance:

- Where possible, rotate the use of **ARMEZON PRO** or other Group 15 and Group 27 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.

ASSIST is a registered trade-mark of BASF SE and MARKSMAN is a registered trade-mark of BASF Corporation, used under license by BASF Canada Inc.

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

All other products named are registered trade-marks of their respective companies.