



GROUP	2	HERBICIDE
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## Prism™ SG Herbicide

Soluble Granule

AGRICULTURAL

REGISTRATION NO. 30057 PEST CONTROL PRODUCTS ACT

FOR SALE FOR USE IN WEED CONTROL FOR POTATOES IN EASTERN CANADA, IRRIGATED POTATOES IN WESTERN CANADA, SEED POTATOES AND TRANSPLANTED PROCESSING TOMATOES AND FRESH MARKET FIELD TOMATOES ONLY, FOR WEED CONTROL/SUPPRESSION IN Highbush Blueberries and Caneberries (Crop Subgroup 13-07A), Stone Fruit (Crop Group 12-09) and Grapes

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

**ACTIVE INGREDIENT:** Rimsulfuron 25.0%

Warning, contains the allergens milk and sulfites.

**NET CONTENTS:** 24-24000 GRAMS

Production Agriscience Canada Company  
P. O. Box 730  
7398 Queen's Line  
Chatham, Ontario  
N7M 5L1  
519-352-6350

## PRECAUTIONS

- ◆ KEEP OUT OF REACH OF CHILDREN.
- ◆ AVOID BREATHING SPRAY MIST.
- ◆ AVOID CONTACT WITH SKIN, EYES AND CLOTHING.
- ◆ DO NOT CONTAMINATE ANY BODY OF WATER
- ◆ DO NOT apply using aerial application equipment
- ◆ Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during groundboom application within a closed cab. In addition, wear goggles/face shield during mixing/loading/clean-up operations and when making sprayer and nozzle repairs and adjustments.
- ◆ When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after handling.
- ◆ Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse.

## 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.

## STATUTORY CONDITIONS RELATING TO USE

Mode of Action: ALS inhibitor

Crops: potatoes, transplanted processing tomatoes, fresh market field tomatoes

Maximum Dose: 60 g/ha for potatoes and transplanted processing tomatoes and 140 g/ha for fresh market field tomatoes

Maximum No. of Treatments: One per year

PHI: 30 days before harvest

Application Timing: post emergent

Because potato varieties differ in their tolerance to herbicides, limit first use of Prism™ SG Herbicide to a small area of each variety prior to adoption as a field practice.

DO NOT apply using aerial application equipment

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during groundboom application within a closed cab. In addition, wear goggles/face shield during mixing/loading/clean-up operations and when making sprayer and nozzle repairs and adjustments.

Carefully observe sprayer cleanup instructions, as spray tank residue may damage other crops.

Do not apply Prism SG Herbicide during periods of intense rainfall or to soils saturated with water. Do not apply directly to standing or running water. Do not apply in areas where surface water from the treatment site can run off to adjacent cropland, either planted or to be planted, or into streams, irrigation water or wells. Applications should only be made when there is no hazard of spray drift contaminating non-target land areas since very small quantities of the Prism SG Herbicide spray solution may severely injure susceptible crops during both growing and dormant periods.

Application of Prism SG Herbicide to potatoes may result in TEMPORARY foliar symptoms (discolouration of younger leaves and pinching of the terminal leaf) that may be confused with symptoms of a viral disease. Early application timing may reduce the likelihood of foliar symptoms.

As with any herbicide, overlaps or starting, stopping, slowing and turning while spraying may result in crop injury.

Under extreme weather conditions, such as hot, dry weather, excessive moisture, or frost, weed control may be reduced.

Rainfall within 2-4 hours after application of Prism SG Herbicide may reduce weed control.

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

#### **ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY**

- A rapid fluctuation in temperature (greater than 20 deg C difference within 24-36 hours) will stress the crop. For maximum crop safety, allow 48-72 hours for the crop to acclimatize before spraying Prism SG Herbicide.
- Only apply Prism SG Herbicide when the temperature in the 24 hours before AND after the application ranges between 5 deg C and 28 deg C. Temperatures beyond this range increase the potential for crop injury.
- WARNING: Crop injury may result if application is made to potatoes that have been stressed by abnormally hot, humid or cold weather conditions, frost, low fertility, drought, water saturated soil, compacted soil, previous pesticide applications, disease or insect damage. If potatoes have been injured by frost, wait 48-72 hours before applying Prism SG Herbicide.
- Prism SG Herbicide rapidly stops growth of susceptible species; typical symptoms usually appear within 5-7 days, but may not be noticeable for 2-3 weeks after application, depending on growing conditions and weed susceptibility.
- Warm, moist conditions following application promote the activity of Prism SG Herbicide, while cool and/or dry conditions may reduce or delay activity. Weeds hardened off by cold weather or drought stress may not be controlled.
- Prism SG Herbicide is a contact herbicide, and will not give residual control of grass or broadleaf weed seedlings that may germinate after application. Weed control may be reduced if the crop canopy has closed in over the weeds, intercepting the spray.

#### **ENVIRONMENTAL PRECAUTIONS**

- TOXIC to aquatic organisms and non-target terrestrial 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) and/or the depth to the water table is shallow
- 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.

**DIRECTIONS FOR USE**

Prism SG Herbicide is a soluble granule formulation to be mixed in water and applied post-emergence to potatoes for control of quackgrass, annual grasses and redroot pigweed. Prism SG Herbicide is non-corrosive, non-flammable, non-volatile, and does not freeze.

Control will not be achieved if surfactant is not applied with Prism SG Herbicide.

Make only one application per year.

- Do not re-enter treated fields until 12 hours after application.
- Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversion, application equipment and sprayer settings.
- DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.
- DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

**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 S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

**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, rangelands, 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.

Spot treatments using hand-held equipment DO NOT require a buffer zone. Use of low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage, and soil drench or soil incorporation DO NOT require a buffer zone.

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:		
		Terrestrial habitat	Aquatic habitat of water depths:	
			Less than 1 m	Greater than 1 m
Field sprayer	Transplanted processing tomatoes Potatoes Highbush blueberries Caneberries (Crop Subgroup 13-07A) Stone fruit (Crop Subgroup 12-09)	5	1	1
	Field tomatoes	15	1	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 web site.

**SPRAY ADJUVANTS**

Prism SG Herbicide must be applied with a recommended non-ionic surfactant, either Citowett Plus, Agral 90 or Ag-Surf at 2 L per 1000 L spray solution (0.2% v/v).

**RATES AND TIMING**

Apply 60 grams/ha of Prism SG Herbicide as a broadcast spray, with a recommended surfactant, to potatoes prior to initiation of flowering.

Apply to weeds according to the leaf staging in the chart below:

<b>WEED</b>	<b>LEAF STAGING AT APPLICATION</b>
Annual grasses	1 to 6 leaf stage (up to early tillering – two 2-leaf tillers)
Quackgrass	Apply to actively growing shoots in the 3 to 6 leaf (< 25 cm leaf extended) stage
Lamb's-quarters, Redroot Pigweed	4 to 6 leaf stage (< 10 cm tall or across)

Application to control ANNUAL GRASSES and QUACKGRASS must be made before the crop canopy can interfere with spray coverage of the target weeds.

Cultivation is NOT recommended within 7-10 days prior to or after application of Prism SG Herbicide.

**WEEDS CONTROLLED AT 60 GRAMS PER HECTARE**

Barnyard Grass	Fall Panicum	Green Foxtail
Lamb's-Quarters <sup>†</sup>	Redroot Pigweed	Quackgrass <sup>1</sup>
Yellow Foxtail <sup>2</sup>	Witchgrass	

<sup>†</sup> Suppression only. Weed suppression is a visual reduction in weed competition (reduced population and/or vigour) as compared to an untreated check. Degree of suppression will vary with size of weed and environmental conditions prior to and following treatment.

NOTE: Weeds which emerge after application of Prism SG Herbicide will not be controlled. Application should be made when the majority of weeds have emerged.

Annual grass and broadleaf weeds are most sensitive when small and actively growing.

Early crop establishment and a good crop stand are important in providing competition for weeds and effective postemergence control of quackgrass and annual weeds when using Prism SG Herbicide.

**Specific Weed Control Recommendations**

<sup>1</sup> Quackgrass - Apply Prism SG Herbicide with a recommended surfactant postemergence when the majority of the quackgrass shoots are actively growing and in the 3 to 6 leaf stage (<25cm - leaf extended). Annual grasses not emerged at the time of Prism SG Herbicide application to quackgrass will not be controlled. Application to quackgrass prior to the 3 to 6 leaf stage may result in reduced weed control since the majority of shoots may not have emerged.

<sup>2</sup> Yellow foxtail present at the time of Prism SG Herbicide application will be controlled. Any yellow foxtail emerging after application will not be controlled.

### **TANK MIXES**

Apply a tankmix of Prism SG Herbicide plus Tricor 75DF Herbicide postemergent plus a non-ionic surfactant, i.e. Citowett Plus, Agral 90 or AgSurf at 2L per 1000L of spray solution (0.2% v/v) in potatoes for control of annual grasses and broadleaf weeds. Tricor 75 DF Herbicide should be applied at 280-375 g/ha along with Prism SG Herbicide at 60 g/ha to control all weeds listed on both Prism SG Label and Tricor 75 DF Herbicide label.

1. Apply specified dosage per hectare as a broadcast postemergence spray over the tops of potatoes when they are less than 10 cm high. Do not use postemergence treatments on Atlantic, Eramosa, Shepody, red-skinned or any early maturing varieties. Temporary yellowing or leaf burn may occur, especially if crop is under stress from poor growing conditions such as periods of cool, wet, and cloudy weather. Avoid postemergence application under these conditions.
2. Spray before weeds are 4 cm high. Use high rates for grasses or dense broadleaf weeds.
3. Do not harvest within 60 days of application.
4. Apply to actively growing annual grasses at the full 2-leaf to 5-leaf stages. For green and yellow foxtail, apply at full 2-leaf to 4-leaf stage.
5. Apply to actively growing plants that have 3 to 5 fully developed leaves.
6. Spray before broadleaf weeds are 4 cm high and when annual grasses are 1 to 6 leaf stage (up to early tillering – two 2-leaf tillers).
7. Prism SG Herbicide must be applied with a recommended non-ionic surfactant, i.e. Citowett Plus, Agral 90 or Agsurf at 2 L per 1000 L of spray solution (0.2% v/v).

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

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Production Agriscience Canada Company under the User Requested Minor Use Label Expansion program. For these uses, Production Agriscience Canada Company has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

#### **FOR USE ON IRRIGATED POTATOES IN WESTERN CANADA (MB, SK, AB, BC)**

Apply 60 grams/ha of Prism SG Herbicide as a postemergent broadcast spray, with a recommended non-ionic surfactant, to potatoes prior to initiation of flowering. Apply after crop emergence, to young actively growing annual grasses and broadleaf weeds listed in this booklet.

Make only one application per growing season.

For additional application and recropping instructions and/or use precautions, see appropriate headings within this booklet.

**NOTE:** Annual grass and broadleaf weeds are most sensitive when small and actively growing (2.5 cm in height/diameter).

#### **TRANSPLANTED PROCESSING TOMATOES**

Apply Prism SG Herbicide at a rate of 60 grams/hectare + 0.2% v/v non-ionic surfactant (Citowett Plus, Agral 90 or AgSurf) to transplanted processing tomatoes.

Weeds controlled or suppressed include all weeds listed on the Prism SG Herbicide label plus hairy nightshade.

NOTE: Prism SG Herbicide may be applied up to the 4 leaf stage of hairy nightshade.

Weeds which emerge after application of Prism SG Herbicide will not be controlled. Application should be made when the majority of weeds have emerged.

Early crop establishment and a good crop stand are important in providing competition for weeds and effective postemergence control of quackgrass and annual weeds when using Prism SG Herbicide.

Apply only one application of Prism SG Herbicide per year with ground equipment. Do not harvest crop within 30 days of treatment. Refer to the appropriate sections of this label for recropping information, and for additional application instructions, specific weed recommendations, mixing instructions and/or use precautions.

#### **FOR USE ON FRESH MARKET FIELD TOMATOES**

For control of hairy nightshade in fresh market field tomatoes, apply Prism SG Herbicide at a rate of 60 grams/hectare + 0.2% v/v non-ionic surfactant (Citowett Plus, Agral 90 or AgSurf).

Weeds which emerge after application of Prism SG Herbicide will not be controlled. Application should be made when the majority of weeds have emerged.

Apply only one application of Prism SG Herbicide per year with ground equipment. Do not harvest crop within 30 days of treatment. Refer to the appropriate sections of the label for recropping information, and for additional application instructions, specific weed recommendations and/or use precautions.

#### **TANK MIX INSTRUCTIONS FOR PRISM SG HERBICIDE + PINNACLE TOSS-N-GO HERBICIDE**

##### **FOR USE ON PROCESSING FIELD TOMATOES ONLY**

##### **Prism SG Herbicide (60 g/ha) + Pinnacle Toss-N-Go Herbicide (5.5 g/ha)**

This tank mixture controls the following weeds:

Red Root Pigweed	Wild Mustard	Lady's Thumb	Green Foxtail
Fall Panicum	Barnyard grass	Hairy Nightshade	Lamb's-quarters†

†Suppression only

##### **Prism SG Herbicide (60 g/ha) + Pinnacle Toss-N-Go Herbicide (8 g/ha)**

This tank mixture controls the following weeds:

Weeds listed above plus Lamb's-quarters and Velvetleaf.

Tank mix Prims SG Herbicide and Pinnacle Toss-N-Go Herbicide (5.5g/ha or 8 g/ha) and apply as a single post-emergent spray using ground application only. Apply to weeds up to 10 cm or 21 days after transplanting. Use with a non-ionic surfactant, Agral 90 at 0.2% v/v. Use a Spray Volume of 200L/ha.

Do not harvest crop within 45 days of treatment. Refer to the appropriate sections of the Prism SG Herbicide and Pinnacle Toss-N-Go Herbicide labels for recropping information, and for additional application instructions, specific weed recommendations and/or use precautions.

### **FIELD TOMATOES**

For control of triazine resistant lambs quarters, hairy nightshade plus other broadleaf weeds listed on the Prism SG Herbicide label, apply Prism SG Herbicide as a single post-emergent spray at a rate of 140 grams/hectare + 0.2% v/v non-ionic surfactant (Agral 90) to field tomatoes, at least 21 days after transplanting the crop.

Weeds which emerge after application of Prism SG Herbicide will not be controlled. Application should be made when the majority of weeds have emerged.

Use ground equipment only. Use in a minimum of 200 litres of water/ha.

Do not harvest crop within 30 days of treatment

### **FOR USE ON Highbush BLUBERRIES**

For control of weeds listed on the Prism SG Herbicide label, make a single application early postemergence to actively growing weeds at a rate of 60 g/ha plus a recommended non-ionic surfactant such as Citowett Plus, Agral 90, or AgSurf at 2 L per 1000 L spray solution (0.2 % v/v). Use a directed spray application adjusted to provide complete coverage of the weeds while minimizing the amount of spray coming into contact with the blueberry plants.

When applied as a banded treatment (50% band or less), Prism SG Herbicide may be applied twice per year. However, do not apply more than 60 grams per hectare on a broadcast application basis per year.

Use on highbush blueberries that have gone through at least one growing season and are in good health and vigor.

Use ground equipment only. Use a minimum of 100 litres of water/ha (recommended spray volume of 140-190 L/ha).

Do not apply within 21 days of harvest.

Refer to the appropriate sections of the Prism SG Herbicide label for a complete list of weeds, their stages of control, as well as additional application and/or use precautions instructions, and/or mixing instructions.

### **FOR USE ON CANEBERRIES (Crop Subgroup 13-07A)**

**BLACKBERRY (INCLUDING ANDEAN BLACKBERRY, ARCTIC BLACKBERRY, BINGLEBERRY, BLACK SATIN BERRY, BOYSENBERRY, BROMBEERE, CALIFORNIA BLACKBERRY, CHESTERBERRY, CHEROKEE BLACKBERRY, CHEYENNE BLACKBERRY, COMMON BLACKBERRY, CORYBERRY, DARROWBERRY, DEWBERRY, DIRKSEN THORNLESS BERRY, EVERGREEN BLACKBERRY, HIMALAYABERRY, HULLBERRY, LAVACABERRY, LOGANBERRY, LOWBERRY, LUCRETIABERRY, MAMMOTH BLACKBERRY, MARIONBERRY, MORA, MURES DERONCE, NECTARBERRY, NORTHERN DEWBERRY, OLALLIEBERRY, OREGON EVERGREEN BERRY, PHENOMENALBERRY, RANGEBERRY, RAVENBERRY, ROSSBERRY, SHAWNEE BLACKBERRY, SOUTHERN DEWBERRY, TAYBERRY, YOUNGBERRY, ZARZAMORA, AND CULTIVARS, VARIETIES AND/OR HYBRIDS OF THESE), LOGANBERRY, RASPBERRY, WILD RASPBERRY, AND CULTIVARS, VARIETIES AND/OR HYBRIDS OF THESE.**



For control of weeds listed on the Prism SG Herbicide, make a single application early postemergence to actively growing weeds at a rate of 60 g/ha plus a recommended non-ionic surfactant such as Citowett Plus, Agral 90, or AgSurf at 2 L per 1000 L spray solution (0.2 % v/v). Use a directed spray application adjusted to provide complete coverage of the weeds while minimizing the amount of spray coming into contact with the caneberry plants. When applied as a banded treatment (50% band or less), Prism SG Herbicide may be applied twice per year. However, do not apply more than 60 grams per hectare on a broadcast application basis per year. Use on caneberries that have gone through at least one growing season and are in good health and vigor.

Use ground equipment only. Use a minimum of 100 litres of water/ha (recommended spray volume of 140-190 L/ha).

Do not apply within 21 days of harvest.

Refer to the appropriate sections of the Prism SG Herbicide booklet for a complete list of weeds, their stages of control, as well as additional application and/or use precautions instructions, and/or mixing instructions.

#### **FOR USE ON GRAPES**

For control of weeds listed on the Prism SG Herbicide, make a single application early post-emergence to actively growing weeds at a rate of 60 g/ha plus a recommended non-ionic surfactant such as Citowett Plus, Agral 90, or Ag-Surf at 2 L per 1000 L spray solution (0.2 % v/v). Use a directed spray application adjusted to provide complete coverage of the weeds while minimizing the amount of spray coming into contact with the vines. When applied as a banded treatment (50% band or less), Prism SG Herbicide may be applied twice per year. However, do not apply more than 60 grams per hectare on a broadcast application basis per year. Use on grapes that have gone through at least one growing season and are in good health and vigor.

Use ground equipment only. Use a minimum of 100 litres of water/ha (recommended spray volume of 140-190 L/ha).

Do not apply within 21 days of harvest.

Refer to the appropriate sections of the Prism SG Herbicide booklet for a complete list of weeds, their stages of control, as well as additional application and/or use precautions instructions, and/or mixing instructions.

#### **FOR USE ON STONE FRUITS (CROP GROUP 12-09): APRICOT, JAPANESE APRICOT, CAPULIN, BLACK CHERRY, NANKING CHERRY, SWEET CHERRY, TART CHERRY, CHINESE JUJUBE, NECTARINE, PEACH, PLUM, AMERICAN PLUM, BEACH PLUM, CANADA PLUM, CHERRY PLUM, CHICKASAW PLUM, DAMSON PLUM, JAPANESE PLUM, KLAMATH PLUM, PRUNE PLUM, PLUMCOT, SLOE, CULTIVARS, VARIETIES, AND HYBRIDS OF THESE COMMODITIES**

For control of weeds listed on the Prism SG Herbicide label, make a single application early postemergence to actively growing weeds at a rate of 60 g/ha plus a recommended non-ionic surfactant such as Citowett Plus, Agral 90, or AgSurf at 2 L per 1000 L spray solution (0.2 % v/v). Use a directed spray application adjusted to provide complete coverage of the weeds under the crop canopy. Do not apply more than 60 grams per hectare on a broadcast application basis per year.

Use ground equipment only. Use a minimum of 200 litres of water/ha

Do not apply within 14 days of harvest.

Refer to the appropriate sections of the Prism SG Herbicide booklet for a complete list of weeds, their stages of control, as well as additional application and/or use precautions instructions, and/or mixing instructions.

### **MIXING INSTRUCTIONS**

1. Fill clean tank about 1/3 full of clean water.
2. With the agitator running, add the required amount of Prism SG Herbicide. Continue to agitate for a minimum of 5 minutes to ensure that Prism SG Herbicide is completely dissolved.
3. Make sure there are no un-dissolved granules, and then add the required amount of the tank mix partner
4. After Prism SG Herbicide has been well mixed and is in suspension, add a recommended non-ionic surfactant such as Citowett Plus, Agral 90, or AgSurf at 2 L per 1000 L spray solution (0.2% v/v).
5. Fill the remainder of the spray tank with water.

For repeat tank loads, reduce the material remaining in the tank to 10% of the original volume or less before proceeding with step 1, because remaining chemicals may prevent Prism SG Herbicide granules from completely dissolving. If this is not possible, pre-slurry the Prism SG Herbicide in a small amount (5-10 L) of water before adding to the tank.

Agitation is required for uniform mixing and application. Apply Prism SG Herbicide in a minimum of 100 litres of water per hectare. Flat fan nozzles are recommended. Use a spray pressure of 175 - 275 kPa. Use 50 mesh screens or larger. Use spray preparation of Prism SG Herbicide within 24 hours or product degradation may occur resulting in a loss of weed control. Use vigorous agitation to thoroughly disperse spray mixtures that have been allowed to stand in the tank.

NOTE: Prism SG Herbicide will degrade in acidic or highly alkaline water. Mix no more than can be used in one day. If spraying is interrupted, thoroughly re-agitate the spray mixture before resuming spraying.

**DO NOT MIX PRISM SG HERBICIDE WITH LIQUID FERTILIZERS, SUBSTANCES THAT CONTAIN BORON OR SUBSTANCES THAT RELEASE FREE CHLORINE.**

Calibrate sprayers only with clean water away from well sites. Make scheduled checks of spray equipment. Assure accurate measurement of products. Mix only enough product for the job at hand. Avoid overfilling spray tank.

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 Production Agriscience Canada Company at 1-800-667-3852 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 Production Agriscience Canada Company.

### **MANAGEMENT OF SPRAY DRIFT**

When applying Prism SG Herbicide near adjacent and/or sensitive plants, do everything possible to reduce the potential for spray drift.

High temperatures, drought and low relative humidity increase the potential for spray drift. Extreme caution must be used when these conditions exist.

Do not apply when a temperature inversion exists characterized by low air movement and an increase in temperature with an inversion in altitude.

## **GROUND AND SURFACE WATER PROTECTION**

Do not mix or load within 10 m of a body of water or wetland.

Do not apply Prism SG Herbicide during periods of intense rainfall or to areas where surface water could run off to adjacent land or water bodies, including ditches and streams.

Observe provincial regulations and guidelines that regulate treatments around water bodies and well sites.

## **SPRAYER CLEANUP**

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of Prism SG Herbicide as follows:

1. Drain tank; thoroughly hose down the interior surfaces of the tank; then flush tank, boom and hoses with clean water for a minimum of 5 minutes.
2. Fill the tank with clean water while adding one litre of household ammonia (containing a minimum of 3% ammonia) for every 100 litres of water. Flush the hoses, boom and nozzles with the cleaning solution and then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 minutes. Again flush the hoses, boom and nozzles with the cleaning solution and then drain the tank.
3. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
4. Repeat step 2.
5. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing the water through the hoses and boom.
6. PRIOR to using the sprayer for the next application, flush the tank, boom and hoses for 5 minutes with fresh water.

## **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, Prism SG Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to Prism SG Herbicide and other Group 2 herbicides. The resistance 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 Prism SG Herbicide or other Group 2 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- ◆ Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- ◆ Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- ◆ Monitor treated 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 your local Production Agriscience Canada Company representative or the Production Agriscience Canada Company hotline at 1-800-667-3852.

**STORAGE**

To prevent contamination, store product in original container in a secure, dry area, away from other pesticides, fertilizer, seed, food or feed. Not for use or storage in or around the home. Keep container tightly closed.

**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.

**WILDLIFE AND HABITAT PROTECTION**

Injury to or loss of desirable trees or vegetation may result from failure to observe the following: Do not apply or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Do not contaminate any body of water, including irrigation water.

Overspray or drift to important wildlife habitats such as ponds, wetlands, streams, woodlots and shelterbelts should be avoided.

**REPLANTING TO OTHER CROPS**

Prism SG Herbicide is degraded by natural soil processes, and field tests have shown that the following crops may safely be planted at the prescribed interval following potatoes that have been treated with Prism SG Herbicide.

**ROTATIONAL CROPS REPLANT INTERVAL**

Winter wheat	4 months
Spring barley, Spring wheat (including durum), Oats, Canola, Soybeans, Dry beans, White beans, Red clover, Sorghum, Chickpeas, Potatoes, Sunflowers, Corn (sweet or seed), Field Peas, Lentils, Flax and Faba Beans	10 months
Field corn	anytime

For other crops, a field bioassay is recommended before planting. A successful field bioassay means growing to maturity a test strip of the crop(s) intended for production the following year.

## FIELD BIOASSAY

Select a representative area or areas of the field previously treated with Prism SG Herbicide to plant your bioassay crop(s). Be sure to consider factors such as size of field, soil texture, drainage and turn-around areas when selecting the site(s) that are most representative of the soil conditions in the field. On large fields, more than one site may be needed in order to obtain reliable results.

Plant the test strips perpendicular to the direction in which the field was sprayed. The strips should be long enough to cross the width of several spray swaths. Large test strip areas are more reliable than small ones.

Use standard tillage and seeding equipment to plant the bioassay. Prepare a seed bed and plant the crops and varieties you want the option of growing the following year. It is important to use the same planting time, conditions, techniques and cultural practices you normally use to plant and grow the bioassay crop(s). Also plant into an adjacent area not treated with Prism SG Herbicide to use as a comparison.

As the crop(s) emerges and grows, examine these key points in Prism SG Herbicide treated and non-treated areas

crop stand	root development	rate of growth
plant colour	vigour - yield	

Allow the bioassay crop(s) to grow to maturity while making your observations. Do not overspray the test strips with herbicides that may damage the bioassay crop(s). If the bioassay indicates that Prism SG Herbicide residues are still present, continue cropping only to those crops listed on the label and do not rotate to other crops until bioassay results indicate that susceptible crops are growing normally.

## 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.

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Label Code: CN-30057-003-E

Replaces: CN-30057-002-E

Label Notes: URMULE for the control of labelled weeds in grape