

2020-1550  
2020-08-04

<b>GROUP</b>	<b>4</b>	<b>9</b>	<b>HERBICIDE</b>
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## **Rustler Summerfallow Herbicide**

SOLUTION

Water soluble herbicide for nonselective weed control in summerfallow.

For sale for use in the brown and dark brown soil zones of the Provinces of Saskatchewan and Alberta only.

### **AGRICULTURAL**

**DANGER - CORROSIVE TO EYES**

**READ THE LABEL AND ATTACHED BROCHURE BEFORE USING**

**REGISTRATION NO. 19536 PEST CONTROL PRODUCTS ACT**

AVOID CONTACT WITH FOLIAGE OF CROP OR OTHER DESIRABLE VEGETATION  
SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

NOT FOR REFORMULATION OR REPACKAGING.

**ACTIVE INGREDIENT:** Glyphosate.....108 grams/litre present as the  
isopropylamine salt  
2,4-D (isomer specific)....182 grams a.e./L present as the isopropylamine salt

Read NOTICE before buying or using. If notice terms are not acceptable, return at once  
unopened.

**BAYER CROPSCIENCE INC**  
**Suite 200, 160 Quarry Park Blvd SE**  
**Calgary, Alberta T2C 3G3**  
**1-888-283-6847**  
**[www.cropscience.bayer.ca](http://www.cropscience.bayer.ca)**

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**Net Contents: 10L**

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## **PRECAUTIONS**

KEEP OUT OF REACH OF CHILDREN

MAY CAUSE IRREVERSIBLE DAMAGE TO EYES

HARMFUL IF SWALLOWED

MAY CAUSE ALLERGIC SKIN REACTION

Do not get in eyes, on skin or on clothing.

The restricted entry interval is 12 hours after application for all agricultural uses.

## **PROTECTIVE EQUIPMENT**

**Handling the concentrate (mixing and loading):** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes, and protective eye wear (face shield or safety glasses). Rinse gloves before removal.

Closed mixing/loading systems are required.

**Handling the dilute spray solutions (during application or repairing or cleaning equipment):** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Rinse gloves before removal.

When handling more than 170 kg a.e. per day, workers must also use a closed cab.

Gloves are not required during application when applicator is in an enclosed tractor.

## **OPERATOR USE PRECAUTIONS**

Wear freshly laundered clothing and clean protective equipment daily.

Rinse gloves before removal.

Wash hands before eating, drinking, using tobacco or using the toilet.

If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

After using this product, remove clothing and launder separately and promptly, and thoroughly wash hands and exposed skin with soap and water. Follow manufacturers' instructions for cleaning personal protective clothing and equipment. If no such instructions for washables are provided, use detergent and hot water. Keep and wash personal protective equipment separate from household laundry.

After work, remove all clothing and shower using soap and water.

## **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.

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**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:**

2,4-D may cause severe irritation to the eyes.

Treat symptomatically. Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness or nausea.

In case of an emergency involving this product, call Bayer CropScience collect, day or night,

Accident/spills/medical emergency ..... 1-800-334-7577

For additional information on this or other Bayer CropScience agricultural products, call the Product Support Line at: 1-888-283-6847.

#### **ENVIRONMENTAL HAZARDS**

- **TOXIC** to small mammals, birds, aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.
- To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay.
- Avoid application 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.
- This product will harm other broadleaved plants in the vicinity of the treatment area. If applying this product using a handheld sprayer, do not directly spray or allow the spray to drift onto ornamentals or gardens.
- Do not spray exposed roots of trees and ornamentals.

#### **LEACHING**

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.

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## **RUNOFF**

To reduce runoff from treated areas into aquatic habitats avoid application to areas with 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 strip of untreated vegetation between the treated area and the edge of the water body.

To prevent runoff from domestic uses avoid spraying on driveways, sidewalks or other hard surfaces. Do not irrigate within 24 hours after application.

## **PHYSICAL OR CHEMICAL HAZARDS**

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and plastic-lined steel containers.

**DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS.** This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

## **STORAGE**

Store product in original container only, away from other pesticides, fertilizers, food or feed. Not for use or storage in or around the home. Store above 5°C to keep product in solution. If crystals form, place in a warm room (20°C), allow the product to reach room temperature and roll or shake periodically until crystals have redissolved. Keep container closed to prevent spills and contamination.

**AVOID DIRECT APPLICATION TO ANY BODY OF WATER.**

## **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.
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For information on the 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**

Rustler Summerfallow Herbicide is a postemergent herbicide for control or suppression of emerged weeds in fallow land.

This product enters the plant through the foliage and moves throughout the plant. Visual effects of control are gradual wilting or yellowing of the plant, which advances to complete browning of above-ground growth and deterioration of affected underground plant parts. Visible symptoms will usually develop on labelled weeds within 5 to 7 days after application, but may not occur for more than 7 days. Extremely cool or cloudy weather following treatment or prolonged drought conditions may slow activity of this product and delay the visual effects of control. Always use the higher rate of this product per hectare when weeds are under poor growing conditions, such as drought.

Reduced control may result if treatments are made during poor growing conditions such as drought stress, disease or insect damage, or if weeds have been mowed, grazed or cut. Heavy dust on foliage or an overstory canopy covering targeted weeds may also reduce control.

This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

Rainfall occurring within 6 hours after application, particularly on weeds growing under stress conditions may reduce the effectiveness of this product. Heavy rainfall within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required.

For best results spray coverage should be uniform and complete.

## **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, Rustler Summerfallow Herbicide is a Group 4 and 9 herbicide. Any weed population may contain or develop plants naturally resistant to Rustler Summerfallow Herbicide and other Group 4 or 9 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 Rustler Summerfallow Herbicide or other Group 4 or 9 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 Bayer CropScience at **1-888-283-6847** or at [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca).

## **APPLICATION PRECAUTIONS**

**DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT.**

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**AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURING DESIRABLE PLANTS AND CROPS.**

Do not allow spray mist to drift since even minute quantities of spray can cause severe damage or destruction to nearby crops, plants or other areas on which treatment is not intended, or may cause other unintended consequences. Do not apply during wind conditions, as spray drift may occur. When spraying, avoid combinations of pressure and nozzle type that will result in fine particles (mist) which are more likely to drift.

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.

**NOTE:** Use of this product in any manner not consistent with this label pamphlet may result in injury to persons, animals or crops or other unintended consequences. Keep container closed to prevent spills and contamination.

## **MIXING INSTRUCTIONS**

### **TRANSFER SYSTEMS:**

Use a transfer system that avoids open pouring when transferring the liquid concentrate from such containers into the spray tank.

Fill the spray tank to at least  $\frac{3}{4}$  of the desired volume with clean water. Add the recommended amount of Rustler Summerfallow Herbicide, then complete the filling process while maintaining agitation. Remove the hose from the mix tank immediately after filling to avoid siphoning back into the carrier source. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, terminate by-pass and return lines at the tank bottom during mixing.

**NOTE:** Reduced results may occur if water containing soil is used, such as water from ponds and unlined ditches.

## **DIRECTIONS FOR USE**

Glyphosate is not to be applied using hand-wicking or hand-daubing methods.

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

**DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.**

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Use conventional ground boom equipment (field sprayers) for control of weeds listed in this booklet.

Recommended applications of this product can be made as required to fallow land.

Fallow land— 3 day restricted-entry interval (REI)

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

DO NOT contaminate irrigation/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) coarse classification. Boom height must be 60 cm or less above the crop or ground.

Airblast or mist blower application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side. For airblast applications, turn off outward pointing nozzles at row ends and outer rows.

Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

### **Buffer Zones:**

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment, inter-row hooded sprayer, low-clearance hooded or shielded sprayers that ensure spray drift does not come in contact with orchard crop fruit or foliage, soil drench and soil incorporation.

For application to rights-of-way and for forestry uses, buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies which minimize off-site drift, including meteorological conditions (for example, wind direction, low wind speed) and spray equipment (for example, coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified buffer zones for protection of sensitive aquatic habitats.

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The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, wetlands and estuarine/marine water bodies).

Agricultural and non-cropland systems	Maximum number of applications	Buffer Zones (metres) Required for the Protection of:	
		Aquatic habitats	Terrestrial habitats
<b>Agricultural crop system and ground boom application method</b>			
Summer fallow	1	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.

This product or labelled tank mixtures should be applied to emerged, actively growing weeds. Application at earlier growth stages generally will provide best results.

Reduced results may occur if application of this product or labelled tank mixtures are made to weeds which are not actively growing or weeds that are drought stressed.

For additional information and precautions refer to the “**General Information**”, “**Mixing Instructions**” and “**Application Precautions**” sections of this label pamphlet.

Apply this product at 2.5 to 3.75 litres/ha in 50 to 100 litres of clean water per hectare. The use of lower water volume may improve results, particularly when extremely hard water is used, (i.e., >700 ppm Ca + Mg).

The higher rate of this product should be applied when weeds are under poor growing conditions such as drought or for those weeds specified in the table below.

DO NOT apply more than twice per year.

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When applied as recommended, this product will control weeds as outlined in the following “Weeds Controlled With Rustler Summerfallow Herbicide” table.

**WEEDS CONTROLLED WITH RUSTLER SUMMERFALLOW HERBICIDE**

<b>Weeds Controlled</b>	<b>Rustler Summerfallow Herbicide Rate (L/ha)</b>	<b>Application Timing*</b>
<b>Annual Grasses</b>		
Cereals (volunteer)	2.5	<ul style="list-style-type: none"> <li>• Any time between emergence and heading</li> <li>• Any time between emergence and heading</li> <li>• 1 to 3 leaf stage</li> </ul>
Foxtail (green)	2.5	
Oats (wild)*	2.5	
<b>Annual Broadleaves</b>		
Flixweed*	3.75	<ul style="list-style-type: none"> <li>• Up to 15 cm height</li> <li>• Up to 15 cm height</li> <li>• Up to 15 cm height</li> <li>• Up to 15 cm height</li> <li>• Up to 15 cm height</li> <li>• Up to 15 cm height</li> <li>• Up to 15 cm height</li> <li>• Up to 15 cm height</li> <li>• Up to 15 cm height</li> <li>• Up to 15 cm height</li> </ul>
Kochia	2.5	
Lady’s-thumb	2.5	
Lamb’s-quarters	2.5	
Mustard (wild)	2.5	
Pigweed (redroot)	2.5	
Rapeseed (volunteer)	2.5	
Thistle (Russian)	2.5	
Stinkweed	2.5	
<b>Perennial</b>		
Barley (foxtail)**	3.75	<ul style="list-style-type: none"> <li>• Before initiation of seed head or browning of lower leaves</li> </ul>

\* See “Special Weed Control Concerns” section of label.

\*\* Suppression only

**TANK MIXES**

For the control of certain additional broadleaf weeds recommended rates of this product can be tank-mixed with Banvel™ Herbicide in 50 to 100 litres of clean water per hectare.

**ADDITIONAL WEEDS CONTROLLED WITH RUSTLER SUMMERFALLOW HERBICIDE TANK MIXES**

**Rustler Summerfallow Herbicide plus Banvel Herbicide**

For control of Wild Buckwheat, in addition to the weeds previously listed under “Weeds Controlled With Rustler Summerfallow Herbicide”, apply 2.5 litres per hectare of Rustler Summerfallow Herbicide tank mixed with 0.44 litres per hectare of Banvel Herbicide.

For best results apply between the 1 to 4 leaf stage.

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(**NOTE:** This rate of Banvel Herbicide is for the 480 grams per litre formulation. With the 400 grams per litre formulation, the rate would be 0.53 litres per hectare).

READ AND CAREFULLY OBSERVE THE CAUTIONARY STATEMENTS AND ALL OTHER INFORMATION APPEARING ON THE LABELS OF ALL TANK MIX HERBICIDES USED.

## **SPECIAL WEED CONTROL CONCERNS**

### **Winter Annual Weeds**

For best control of winter annual weeds, such as flixweed, 2,4-D should be applied to emerged, actively growing weeds in the fall previous to the fallow season or in early spring in the fallow season when winter annual weeds are less than 10 cm tall. Refer to 2,4-D labels for appropriate rates and other use instructions and cautionary statements.

### **Wild Oats**

For control of wild oats at the 4-leaf stage or later apply Rustler Summerfallow Herbicide at 2.5 litres per hectare plus granular ammonium sulfate fertilizer (21-0-0-24) at 3 percent by weight relative to spray volume. (For example, use 3 kilograms of ammonium sulfate per 100 litres of water).

Use only high quality bagged ammonium sulfate such as Cominco or Sheritt Gordon brands in order to avoid contaminants.

### **Handling and Use of Ammonium Sulfate**

Dissolve the ammonium sulfate in a small barrel or tank prior to adding it to the spray tank. Add 3 kilograms ammonium sulfate per 100 litres of water (3 pounds per 10 gallons of water).

Dissolving the ammonium sulfate prior to adding it to the spray tank and pouring this solution through a screen reduces the chance of nozzle plugging, minimizes tank and line corrosion, and reduces the chances of impurities entering the spray tank. Rinse the tank and lines immediately after spraying.

### **Control of Weeds Under Stress Conditions**

Under certain stress conditions, such as drought, cool temperatures or where extremely hard water (>700 ppm Ca + Mg) has been used weed control may be reduced with this product. However, the following list of application instructions may help improve results under these conditions:

-- Use a lower water volume within the recommended volume range (50 litres per hectare clean water)

AND

-- Use the higher rate of Rustler Summerfallow Herbicide within the recommended rate range (3.75 litres per hectare)

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NOTE: DO NOT SEED a crop to fields treated with Rustler Summerfallow Herbicide for at least 3 weeks after application.

<sup>TM</sup> Banvel is a registered trademark of BASF.

### **SPRAYER CLEANUP**

CLEAN THE ENTIRE SPRAYER AFTER APPLICATION OF THIS PRODUCT. Failure to clean the sprayer thoroughly may result in injury to desirable crops which are subsequently sprayed. First, add clean water to the tank and thoroughly rinse the entire sprayer system. Secondly, fill the tank with water and ammonia. Add 1 litre of household ammonia per 100 litres of water. Pump enough solution through the hoses, boom and nozzles to fill these parts completely. Then fill the tank, close and leave for 24 hours before draining and rinsing thoroughly with water.

Application of use of other agricultural chemicals with the equipment used for this product may result in injury to desirable vegetation.