

2020-1550
2020-08-04

GROUP	4	9	HERBICIDES
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MOCAN 943

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

SOLUTION

DANGER - CORROSIVE TO EYES

REGISTRATION NO. 20423 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: glyphosate, present as the isopropylamine salt.....120 g/L
dicamba, present as the isopropylamine salt.....86 g a.e./L

READ THE LABEL AND THIS PAMPHLET BEFORE USING

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

NOT FOR REFORMULATION OR REPACKAGING.

Read NOTICE TO USER before buying or opening. 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

Net Contents: 10L

2020-1550
2020-08-04

BAYER CROPSCIENCE INC. 2020

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

MAY CAUSE IRREVERIBLE DAMAGE TO EYES.

HARMFUL IF SWALLOWED.

MAY CAUSE ALLERGIC SKIN REACTION.

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

Wear goggles or face shield and chemical resistant gloves when transferring and mixing and when adjusting, repairing or cleaning equipment.

Applicators must wear a long-sleeved shirt, long pants and chemical-resistant gloves.

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

DO NOT permit lactating dairy animals to graze fields within 7 days after application.

Wash thoroughly with soap and water after handling.

DO NOT harvest forage or cut hay within 30 days after application. Withdraw meat animals from treated fields at least 3 days before slaughter.

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

Dicamba may cause severe irritation to the eyes and irritation to the skin and mucous membranes. Symptoms of overexposure to dicamba may include dizziness, muscle weakness, loss of appetite, weight loss, vomiting, decreased heart rate, shortness of breath, excitement, tenseness, depression, incontinence, cyanosis, muscle spasms, exhaustion and loss of voice. Treat symptomatically

2020-1550
2020-08-04

In case of emergency involving this product, call Bayer CropScience collect, day or night:
Accident/Spills/Medical Emergency..... 1-800-334-
7577

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.

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.

ENVIRONMENTAL HAZARDS

- **TOXIC** to 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.

Surface Runoff

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

Potential for contamination of aquatic areas as a result of runoff may be reduced by including an untreated vegetative strip between the treated area and the edge of the water body.

Avoid applying this product when heavy rain is forecast

Leaching

2020-1550
2020-08-04

The use of this chemical may result in contamination of groundwater, particularly in areas where soils are permeable (e.g. sand, loamy sand and sandy loam soils) and/or the depth to the water table is shallow.

STORAGE

Store product in original container only, away from other pesticides, fertilizer, 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.

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.

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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.

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PRODUCT INFORMATION

MOCAN 943 Water Soluble Herbicide is a postemergence 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 labeled weeds within 5 to 7 days after applications, 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 visual effects of control. Always use the higher rate of this product per hectare when weeds are under poor growing conditions, such as drought.

2020-1550
2020-08-04

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, MOCAN 943 Water Soluble Herbicide is a Group 4 and 9 herbicide. Any weed population may contain or develop plants naturally resistant to MOCAN 943 Water Soluble 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 MOCAN 943 Water Soluble 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

2020-1550
2020-08-04

- 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.
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- For further information or to report suspected resistance, contact Bayer CropScience at 1-888-283-6847 or at www.cropscience.bayer.ca.

APPLICATION PRECAUTIONS

DO NOT APPLY THIS PRODUCT BY AIR.

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 windy 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

Fill the spray tank to about $\frac{3}{4}$ of the desired volume with clean water. Add the recommended amount of MOCAN 943 Water Soluble 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

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

2020-1550
2020-08-04

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.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuarine 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) 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,

2020-1550
2020-08-04

minimizing height above canopy), should be used. Applicators must, however, observe the specified buffer zones for protection of sensitive aquatic habitats.

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
Agricultural crop system and ground boom application method			
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 labeled 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 applications of this product or labeled 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 “PRODUCT INFORMATION,” “MIXING INSTRUCTIONS” and “APPLICATION PRECAUTIONS” sections of this label pamphlet.

Apply this product at 2.5 to 3.75 litres per hectare in 50 to 100 litres of clean water per hectare. The use of the 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.

2020-1550
2020-08-04

When applied as recommended, this product will control weeds as outlined in the following "WEEDS CONTROLLED WITH MOCAN 943 Water Soluble Herbicide" Table.

WEEDS CONTROLLED WITH MOCAN 943 Water Soluble Herbicide

WEED	MOCAN 943 Water Soluble Herbicide (L/ha)	APPLICATION TIMING
ANNUAL GRASSES		
Oats (Wild)*	2.5	1 to 3 leaf stage
Cereals (Volunteer)	2.5	Any time between emergence and heading
Persian Darnel	2.5	Any time between emergence and heading
Foxtail (Green)	2.5	Any time between emergence and heading
ANNUAL BROADLEAVES		
Flixweed*	3.75	Up to 15 cm height
Pigweed (Redroot)**	2.5	Up to 15 cm height
Smartweed	2.5	Up to 15 cm height
Wild Buckwheat**	2.5	1 to 4 leaf stage
Stinkweed	2.5	Up to 15 cm height
Wild Mustard	2.5	Up to 15 cm height
Kochia	2.5	Up to 15 cm height
Thistle (Russian)	2.5	Up to 15 cm height
Lamb's-quarters	2.5	Up to 15 cm height
Cow Cockle	2.5	Up to 15 cm height
Canola (Volunteer)	2.5	Up to 15 cm height
PERENNIAL		
Barley (Foxtail)***	3.75	Before initiation of seed head or browning of lower leaves

*See "SPECIAL WEED CONTROL CONCERNS" section of label.

**Suppression only. For control 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 2,4-D in 50 to 100 litres of clean water per hectare.

MOCAN 943 Water Soluble Herbicide plus 2,4-D

For control of Redroot Pigweed in addition to weeds previously listed under "WEEDS CONTROLLED WITH MOCAN 943 Water Soluble Herbicide" apply 2.5 litres per hectare MOCAN 943 Water Soluble Herbicide plus 1 litre per hectare of 2,4-D (500 amine formulation). For best results, apply before weeds reach 15 centimetres in height.

MOCAN 943 Water Soluble Herbicide plus Ammonium Sulfate

- For
- control of Wild Oats at the 4 leaf stage or later
 - control of Wild Buckwheat
 - improved control of all weeds under certain stress conditions, such as drought or cool temperatures

2020-1550
2020-08-04

Apply MOCAN 943 Water Soluble 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, Sheritt Gordon or Esso 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.

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 centimetres tall. Refer to 2,4-D label for appropriate rates and other use instructions and cautionary statements.

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

Control of Weeds Under Stress Conditions

Under certain 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 will help improve results under these conditions.

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

Add granular ammonium sulfate to the spray solution (1.5 kilograms per 50 litres of water)

AND

Use the higher rate of MOCAN 943 Water Soluble Herbicide within the recommended rate range (3.75 litres per hectare)

2020-1550
2020-08-04

NOTE: DO NOT SEED a crop into fields treated with MOCAN 943 Water Soluble Herbicide for at least 3 weeks after application.

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