

2023-2434  
2024-12-18

GROUP	2	HERBICIDE
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## **SPARTAN® WG HERBICIDE**

WETTABLE GRANULES

FOR SALE FOR USE IN EASTERN CANADA FOR WEED CONTROL IN LOWBUSH BLUEBERRIES IN  
EASTERN CANADA ONLY

Warning, contains the allergen sulfites and milk

COMMERCIAL (AGRICULTURAL)

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

**ACTIVE INGREDIENT:** Tribenuron Methyl 75%

REGISTRATION NO.: 23632 PEST CONTROL PRODUCTS ACT

**NET CONTENTS:** 160 GRAMS

WARNING :EYE IRRITANT  
POTENTIAL SKIN SENSITIZER

FMC of Canada Limited  
6755 Mississauga Road, Suite 204  
Mississauga, ON L5N 7Y21-833-362-7722

**PRECAUTIONS:**

- **KEEP OUT OF REACH OF CHILDREN.**
- WARNING: EYE IRRITANT
- POTENTIAL SKIN SENSITIZER
- May be harmful if swallowed, inhaled or absorbed through skin.
- Avoid contact with skin, eyes and clothing.
- Wear suitable chemical resistant gloves and goggles or face shield during mixing and loading.
- Avoid breathing spray mist. Use with adequate ventilation.
- Do not contaminate any body of water.
- 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 re-use.
- Do not apply by air
- **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

**FIRST AID:**

**If swallowed:** Call a poison control center 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 center 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 center 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 center 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 center or doctor for treatment advice.

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

**IN CASE OF EMERGENCY, CALL TOLL FREE, DAY OR NIGHT: 1-800-331-3148**

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

**ENVIRONMENTAL PRECAUTIONS:**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under **DIRECTIONS FOR USE**. Refer to attached booklet for more information.

**STORAGE:**

Store this product away from food or feed. Store product only in original container in a secure, dry area, away from fertilizer. Not for use or storage in or around the home. Keep container 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/territorial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial 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.

Spartan® is a trademark of FMC Corporation or an affiliate.

&lt;&lt;DFU Booklet&gt;&gt;

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- Avoid contact with skin, eyes and clothing.
- Wear suitable chemical resistant gloves and goggles or face shield during mixing and loading.
- Avoid breathing spray mist. Use with adequate ventilation.
- Do not contaminate any body of water.
- 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 re-use.
- Do not apply by air
- **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

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## **IN CASE OF EMERGENCY, CALL TOLL FREE, DAY OR NIGHT: 1-800-331-3148**

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

### **RESTRICTIONS AND USE PRECAUTIONS:**

- DO NOT APPLY BY AIR.
- Carefully observe sprayer clean-up instructions, as spray tank residue may damage crops other than blueberries.
- DO NOT APPLY SPARTAN® WG HERBICIDE WITH A CARRIER OTHER THAN WATER OR ANY ADDITIVE OTHER THAN THOSE INDICATED IN THIS BOOKLET. Other carriers may accelerate breakdown of this product and reduce its effectiveness.
- SPARTAN® WG Herbicide applied to blueberries stressed by severe conditions such as drought, low fertility, water logged soils (soils at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury, grade or yield loss.
- Use a maximum of 40 grams per hectare of SPARTAN® WG Herbicide per year.
- Do not apply to irrigated land where tail water will be used to irrigate other crop land.
- Do not contaminate irrigation water.
- Do not remove soil from treated fields for use on lawns, in gardens or for backfill.
- If rainfall occurs soon after application, control may be reduced. At least 4-6 hours of dry weather are needed to allow SPARTAN® to be absorbed by weed foliage.
- SPARTAN® WG Herbicide should be applied only with a carrier such as water. Do not use any additive other than those indicated in this booklet. Other carriers may accelerate breakdown of this product and reduce its effectiveness.
- Under certain conditions such as prolonged cool weather temperature or wide fluctuations in day/night temperatures just prior to or soon after treatment, temporary yellowing and/or crop stunting may occur.

### **ENVIRONMENTAL PRECAUTIONS:**

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

**DIRECTIONS FOR USE:**

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.

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.

**Spray Buffer Zones:**

A spray buffer zone is **NOT** required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage,
- soil drench or soil incorporation.

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

Method of Application	Crop	Spray Buffer Zones (meters) Required for the Protection of:		
		Aquatic Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	
Field Sprayer	Lowbush blueberries (Eastern Canada only)	1	0	10

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray 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 spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

SPARTAN® WG Herbicide is to be mixed in water and applied as a uniform broadcast spray. It is non-corrosive, nonflammable, nonvolatile and does not require heated storage.

Warm, moist growing conditions promote active weed growth and enhance the activity of SPARTAN® WG Herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by environmental stress such as cold weather, drought stress or excessive heat may not be adequately controlled or suppressed, and regrowth may occur. SPARTAN® WG Herbicide may only be applied using ground spray equipment. For best results, ensure thorough spray coverage of target weeds.

SPARTAN® WG Herbicide rapidly stops growth of susceptible weeds. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending on

growing conditions and weed susceptibility. Degree of control and duration of effect depend on weed sensitivity, weed size, spray coverage and growing conditions. Favourable growing conditions following treatment promote the activity of SPARTAN® WG Herbicide while cold, dry conditions delay the activity.

For bunchberry control, apply SPARTAN® WG Herbicide at 40 g/ha with 0.2% v/v AGRAL 90\* (2 L per 1000 L of water) in the spring of the sprout year\*\*. Apply in 150 to 250 L water per hectare.

For best results, application should be made when the majority of the emerged bunchberry plant leaves have unfolded to form a 45 degree angle, but no later than when the first white blossoms are visible on the most advanced plants. SPARTAN® WG Herbicide + AGRAL\* 90 should be applied before blueberry sprout regrowth exceeds 2 cm in height. Applications made at later stages of blueberry development or applications made in spring burnt fields are not recommended due to potential crop injury and yield reductions. Blueberry plant stunting can result following SPARTAN® WG Herbicide + AGRAL\* 90 application, but they recover and fruit bud numbers and yields should not be affected. Recommended fertilizer applications following SPARTAN® WG Herbicide + AGRAL\* 90 applications can be beneficial.

\*Control will not be achieved if AGRAL\* 90 is not applied with SPARTAN® WG Herbicide.

\*\*Make only one application per crop cycle (2 or 3 years) in the sprout year.

SPARTAN® WG Herbicide is taken up mainly through actively growing plant tissue, thus no specific soil restrictions apply.

**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 FMC of Canada Ltd. under the User Requested Minor Use Label Expansion program. For these uses, FMC of Canada Ltd. 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.

**LOWBUSH BLUEBERRY: Bunchberry control – fall application** For bunchberry control, apply SPARTAN® WG Herbicide at 40 g/ha with 0.2% v/v AGRAL 90\* (2 L per 1000 L of water) 1-4 weeks after completion of harvest. Apply in 150 to 250 L water per hectare. Do not apply more than once in a crop cycle.

**LOWBUSH BLUEBERRY:** To control yellow loosestrife, speckled alder, wild rose, and bracken fern in lowbush blueberries, mix 0.25 grams SPARTAN® WG Herbicide per litre of water plus AGRAL\* 90 at a rate of 0.2% v/v (2 L per 1000 L spray solution).

Apply SPARTAN® WG Herbicide as a spot treatment. Application should be made in mid summer of the prune or vegetative year of the crop to fully expanded foliage of bracken fern and yellow loosestrife. Wild rose and speckled alder may also be controlled by early fall applications. Apply enough spray solution to thoroughly wet the weed foliage. Stunting and reduction of fruit buds may occur if the crop is sprayed directly.

**RESISTANCE MANAGEMENT:**

For resistance management, Spartan WG Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to Spartan WG Herbicide and other Group 2 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 Spartan WG 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 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 FMC representative or the FMC hotline at 1-833-362-7722

#### **TANK MIXES:**

This product may be tank mixed with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact FMC of Canada Limited at 1-833-362-7722 for information before applying any tank mix that is not specifically recommended on this label.

#### **MIXING INSTRUCTIONS:**

1. Fill spray tank 1/4 to 1/3 full with fresh water. Use a minimum of 150 L water per hectare.
2. Add the required amount of SPARTAN® WG Herbicide to the tank with the agitator running. Continuous agitation is required for uniform suspension and application.
3. Add AGRAL® 90 at a rate of 2 L/1000 L spray solution (0.2% v/v).
4. Fill the remainder of the tank with water.
5. For repeat tank loads, reduce the volume in the tank to 10% or less of the original volume before proceeding with step 1. If this is not possible, pre-slurry SPARTAN® WG Herbicide in a small amount of water (5-10 L) before adding to the tank.

Apply the spray mixture uniformly with properly calibrated ground equipment. Ensure thorough coverage

and a uniform spray pattern. Flat fan nozzles are recommended. Use 50 mesh filter screens or larger (metal or nylon). Continuous agitation is required to keep SPARTAN® WG Herbicide in suspension. Apply uniformly and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over application.

Use spray preparation of SPARTAN® WG Herbicide within 24 hours or product degradation may occur. If spray preparation is left standing without agitation, thoroughly agitate and resuspend the mixture before spraying.

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

#### **MANAGEMENT OF SPRAY DRIFT:**

- When applying SPARTAN® WG Herbicide near adjacent, sensitive crop and/or 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 increase in altitude.

#### **GROUND AND SURFACE WATER PROTECTION:**

- Do not mix or load within 15 metres of a body of water or wetland.
- Do not mix, load or apply within 15 metres of any wells.
- Do not apply SPARTAN® WG 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.

#### **SPRAY TANK CLEAN OUT:**

To avoid subsequent injury to crops other than blueberries, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of SPARTAN® WG Herbicide from mixing and spray equipment as follows:

1. Drain tank; then flush tank, boom and hoses with clean water for a minimum of ten minutes to remove all visible residues.
2. Fill the tank with clean water then add 1 litre household AMMONIA (containing a minimum of 3% ammonia) per 100 litres of water. Fill boom and hoses with solution and allow sprayer to sit for 15 minutes. Drain.
3. Repeat step 2.
4. Nozzles and screens should be removed and cleaned separately. To remove traces of ammonia, rinse the tank, hoses and booms thoroughly with clean water.
5. Dispose of tank rinsate according to Provincial directions.

#### **CAUTION:**

Do not use ammonia with chlorine bleach. Using Ammonia with chlorine bleach will release a gas with a

musty chlorine odour, which can cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.

**STORAGE:**

Store this product away from food or feed. Store product only in original container in a secure, dry area, away from fertilizer. Not for use or storage in or around the home. Keep container 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/territorial requirements.

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

**WILDLIFE AND HABITAT PROTECTION:**

Injury to or loss of desirable trees, vegetation or habitat may result from failure to observe the following: Do not apply, 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 that may be used on crops.

**NOTICE TO USER:**

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Spartan® is a trademark of FMC Corporation or an affiliate.

All other products mentioned are registered trademarks/trademarks of their respective manufacturers.