

PMRA Approved Label – M.A.
2024-6058 2025-08-14

Container Label

GROUP

2 | 15

HERBICIDE

PF-100-0050 HERBICIDE

COMMERCIAL

Wettable Granules

For Burn-off and Extended Weed Control in
Spring Wheat (Excluding Durum) and Winter Wheat

ACTIVE INGREDIENT: Pyroxasulfone.....78.4%
Tribenuron-methyl..... 3.9%

WARNING, CONTAINS THE ALLERGENS SULFITES AND MILK

REGISTRATION NO. 35323 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND ACCOMPANYING BOOKLET BEFORE USING

**WARNING - EYE IRRITANT
POTENTIAL SKIN SENSITIZER**

Net Contents: 185 g – 1000 kg

FMC of Canada Limited
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
1-833-362-7722

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.

FIRST AID

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

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

If swallowed: Call a poison control centre or doctor immediately for treatment advice. 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.

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

IN CASE OF EMERGENCY, CALL 1-800-331-3148
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TOXICOLOGICAL INFORMATION

Treat symptomatically.

PRECAUTIONS**KEEP OUT OF REACH OF CHILDREN**

WARNING – EYE IRRITANT

POTENTIAL SKIN SENSITIZER

May be harmful if swallowed, inhaled or absorbed through skin. Avoid breathing spray mist or dust. Use with adequate ventilation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.

DO NOT apply by air.

See booklet for full user precautions, including personal protective equipment.

Environmental Precautions

Toxic to aquatic organisms and non-target terrestrial plants. Refer to attached booklet for more information.

STORAGE

Store this product away from food or feed.

Store in original containers only, in a cool, dry, well-ventilated location. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

DISPOSAL**For refillable containers:**

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

For returnable containers:

DO NOT reuse this container for any purpose. For disposal, the empty container may be returned to the point of purchase (distributor/dealer).

For recyclable containers:

DO NOT reuse this container for any purpose. This is a recyclable container and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial or territorial requirements.

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

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Booklet

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	<u>TABLE OF CONTENTS</u>	
		<u>Section Number</u>
NOTICE TO USER		1
FIRST AID AND TOXICOLOGICAL INFORMATION		2
PRECAUTIONS	Precautions, Protective Clothing and Equipment	3
	Environmental Precautions	4
GENERAL INFORMATION	Product Information	5
DIRECTIONS FOR USE	General Application Instructions	6
	Spray Drift Management	7
	Mixing and Loading Instructions	8
	Sprayer Cleanup	9
	Crop Uses and Weeds Controlled	10
	Rotational Crops	11
	Resistance Management	12
STORAGE		13
DISPOSAL		14

SECTION 1: NOTICE TO USER

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SECTION 2: FIRST AID AND TOXICOLOGICAL INFORMATION**FIRST AID**

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TOXICOLOGICAL INFORMATION

Treat symptomatically.

SECTION 3: PRECAUTIONS, PROTECTIVE CLOTHING AND EQUIPMENT**PRECAUTIONS****KEEP OUT OF REACH OF CHILDREN**

WARNING – EYE IRRITANT

POTENTIAL SKIN SENSITIZER

May be harmful if swallowed, inhaled or absorbed through skin. Avoid breathing spray mist or dust. Use with adequate ventilation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.

DO NOT apply by air.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Follow mixer/loader and applicator scenario, as appropriate in the chart below.

Equipment	Amount of product handled per day	Personal Protective Equipment	
		Mixer/Loader/Clean-up and Repair	Applicator
Ground boom	76 kg or less	Long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and protective eyewear (goggles or a face shield). In addition, wear a NIOSH-approved N95 (minimum) filtering respirator (dusk mask) that is properly fit tested when handling.	Long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during application within a closed cab.
	More than 76 kg	Wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and protective eyewear (goggles or face shield). In addition, wear a NIOSH-approved N95 (minimum) filtering respirator (dusk mask) that is properly fit tested when handling.	Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during application within a closed cab.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

RESTRICTED-ENTRY INTERVAL

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

SECTION 4: ENVIRONMENTAL PRECAUTIONS

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

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where

the water table is shallow, may result in groundwater contamination.

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 filter strip between the treated area and the edge of the water body.

Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

SECTION 5: PRODUCT INFORMATION

PF-100-0050 Herbicide is a selective herbicide for preplant weed control in spring wheat (excluding durum) and winter wheat. PF-100-0050 Herbicide is a water dispersible formulation intended for dilution with water for application. PF-100-0050 Herbicide, when tank mixed with glyphosate, will provide burn-off and/or extended control of certain weed species.

PF-100-0050 Herbicide is intended for medium-fine to fine soil textures. DO NOT use on coarse textured soils.

Warm, moist growing conditions promote active weed growth and enhance the activity of PF-100-0050 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. For best results, ensure thorough spray coverage of target weeds.

The active ingredient, tribenuron-methyl, in PF-100-0050 Herbicide rapidly stops growth of susceptible weeds. However, typical symptoms (discoloration) 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. Activity of the herbicide mixture may be delayed by cold, dry conditions after application.

The active ingredient, pyroxasulfone, in PF-100-0050 Herbicide provides pre-emergent (extended) control of certain weed species. Moisture is necessary to activate PF-100-0050 Herbicide in soil for pre-emergent weed control. Dry weather following applications of PF-100-0050 Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, PF-100-0050 Herbicide will control susceptible germinating weeds. The pyroxasulfone in PF-100-0050 Herbicide may not provide extended control on weeds that germinate after application but prior to an activating rainfall/irrigation or weeds that germinate through cracks resulting from dry soil. When adequate moisture is not received after PF-100-0050 Herbicide application, pre-emergent weed control may be improved by irrigation. **DO NOT** use flood irrigation to activate or incorporate PF-100-0050 Herbicide.

DIRECTIONS FOR USE

SECTION 6: GENERAL APPLICATION INSTRUCTIONS

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of

equipment or disposal of wastes.

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

DO NOT apply by air.

DO NOT use on peat or muck soils and soils with 7% or more organic matter content.

DO NOT use on soils with a pH greater than 7.8.

PF-100-0050 Herbicide is intended for medium-fine to fine soil textures. DO NOT use on coarse textured soils.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. For any requirements specific to your area, consult the provincial agency responsible for pesticide regulation.

DO NOT apply to wheat in combination with products containing sulfentrazone.

DO NOT apply to wheat in the spring if a product containing sulfentrazone was applied the previous fall.

DO NOT apply with any other products containing pyroxasulfone.

DO NOT apply if products containing pyroxasulfone were applied the previous fall.

DO NOT apply products containing saflufenacil with, before or after application of PF-100-0050 Herbicide as crop injury may occur.

DO NOT apply products containing tiafenacil with, before or after application of PF-100-0050 Herbicide as crop injury may occur.

Heavy rainfall soon after application may result in visual crop injury or possible yield reduction. Conditions such as thin crop stand, sandy soil or low soil organic matter may increase the severity of injury.

PF-100-0050 Herbicide should be applied to uniform seedbed that is firm and free of clods. Before applying to wheat, verification of PF-100-0050 Herbicide selectivity on wheat varieties must be confirmed with your local seed company or supplier to avoid potential injury or yield losses to sensitive varieties. Crop seeds must be planted a minimum of 2.5 cm deep.

Weed control may be reduced if trash from the previous crop covered more than 25% on the ground at PF-100-0050 Herbicide application.

Carefully observe sprayer clean-up instructions, as spray tank residue may damage crops other than spring wheat, and winter wheat. Thoroughly clean all traces of tank mix from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Wash away any spray mixture from the outside of spray tank, nozzle or spray rig.

Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls or calcium deposits.

SECTION 7: SPRAY DRIFT MANAGEMENT

Minimizing spray drift at the application site is the responsibility of the applicator and the grower. The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Field sprayer application: DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) 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

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 (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	
Field sprayer	Spring Wheat and Winter Wheat	5	3	3

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 (ASABE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product for conventional application equipment can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Drift Mitigation portion of the Canada.ca website.

SECTION 8: MIXING AND LOADING INSTRUCTIONS

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.

Spray Tank Preparation

It is important that spray equipment is clean and free of existing pesticide deposits before using this product. Follow the spray tank clean out procedures specified on the label of product previously applied before adding PF-100-0050 Herbicide to the tank.

A minimum of 100 L of spray solution per ha should be used to ensure uniform spray coverage. Nozzle selection should meet manufacturer's spray volume and pressure recommendations for pre-emergence and post-emergence herbicide applications. Use 50 mesh screens or larger (metal or nylon).

Mixing and Loading Instructions

PF-100-0050 Herbicide is a water dispersible granule intended for dilution with water. For best results, fill spray tank with one half of the volume of clean water needed for the area to be treated. Start the agitation system. Slowly add the PF-100-0050 Herbicide to the spray tank. Complete filling the spray tank to the desired level. Once PF-100-0050 Herbicide is thoroughly dispersed, add the required amount of glyphosate. Continuous spray tank agitation is required at all times to maintain a uniform spray solution.

Use the PF-100-0050 Herbicide mixture immediately after mixing.

Do not store the sprayer overnight or for any extended period of time with the PF-100-0050 Herbicide spray mixture remaining in the tank.

Premixing PF-100-0050 Herbicide spray solutions in nurse tanks is not recommended.

Tank Mixtures: Fill spray tank one-half to two-thirds full of water; with agitator operating add the recommended amount of ingredients using the following order:

- **Wettable powders and dispersible granules**
- **Agitate tank mix thoroughly**
- **Micro-encapsulated suspensions**
- **Liquid flowables and suspensions**
- **Emulsifiable concentrate formulations**
 - Fill spray tank nearly full of water
- **Glyphosate formulations**
- **Surfactants**
 - Complete filling the spray tank to the desired level

Maintain agitation during filling, mixing and application. When using drift reducing agents, follow specific product label instructions for order of addition to spray tank.

SECTION 9: SPRAYER EQUIPMENT CLEANOUT

After spraying PF-100-0050 Herbicide and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure:

1. Drain sprayer tank, hoses, and spray boom. Use a high-pressure detergent wash to remove physical sediment and residues from the inside of the sprayer tank and thoroughly rinse. Then thoroughly flush all sprayer hoses, booms, and nozzles with clean water.
2. Fill the tank with clean water, and then add 3 litre household AMMONIA (containing minimum of 3% ammonia) or equivalent amount of a sprayer tank cleaner containing ammonia, per 100 litres of water.
3. Flush solution through boom and hoses, and then add more water to completely fill tank. Allow to sit for 15 minutes with agitation.
4. Drain the tank.
5. Remove the nozzles, screens, and boom end caps and clean separately in a bucket containing ammonia cleaning agent and water.
6. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing water through the hoses and boom.
7. Properly dispose of all cleaning solution and rinsate in according with provincial guidelines and regulations.

Do not drain or flush equipment on or near desirable trees or plants.

Do not contaminate any body of water including irrigation water that may be used on other plants or crops.

CAUTION: Do not use ammonia with chlorine bleach. Using ammonium with chlorine bleach will release a gas with a musty chlorine odour that can cause eye, nose, throat, and lung irritation. Do not clean equipment in an enclosed area.

SECTION 10: CROPS AND WEEDS CONTROLLED

SPRING WHEAT (EXCLUDING DURUM) AND WINTER WHEAT PREPLANT APPLICATION

PF-100-0050 Herbicide is to be mixed with glyphosate and applied pre-plant to wheat for weed control in fall (winter wheat) or spring (spring wheat). **Do not** apply to durum wheat. This tank mix will provide both extended control and/or burndown control of certain weed species.

Fields treated with this tank mix can be seeded to spring wheat (excluding durum) or winter wheat a minimum of 24 hours after application.

PF-100-0050 Herbicide may result in wheat injury, but final grain yield should not be negatively impacted.

Apply PF-100-0050 Herbicide at 192 g/ha, tank mixed with glyphosate (present as potassium salt, isopropylamine salt, ammonium salt) at 450 - 810 g ae/ha in a total spray volume of 100 L/ha.

This tank mix will control the following weeds:

Use rate of PF-100-0050 Herbicide	Use rate of glyphosate	Weed Application Stage	Weeds Controlled	Weeds Suppressed *
192 g/ha	450 g ae/ha	Extended control (prior to weed emergence)		
			Annual grasses Barnyardgrass Crabgrass (large) Downy brome Foxtail (green, yellow, giant) Japanese brome Ryegrass (Italian) Wild oats (suppression)	
			Annual Broadleaf Weeds Common waterhemp Kochia (suppression) Lamb's quarters (suppression) Redroot pigweed Cleavers	
		Burndown (Emerged weeds only)		
		Up to 8 cm	Canada fleabane Common ragweed Narrow-leaved hawk's beard	Scentless chamomile
		Up to 10 cm		Wild carrot
		Up to 15 cm	Cleavers Dandelion Downy brome Flixweed Giant foxtail Green foxtail Hemp nettle Kochia Lady's thumb Lamb's-quarters Persian darnel Redroot pigweed Russian thistle Stinkweed Volunteer barley Volunteer canola	Tufted vetch

Use rate of PF-100-0050 Herbicide	Use rate of glyphosate	Weed Application Stage	Weeds Controlled	Weeds Suppressed *
			(including glyphosate-tolerant varieties) Volunteer flax Volunteer wheat Wild mustard Wild oats	
		Up to 3-leaf	Cow cockle Wild buckwheat	
		Up to 8-leaf	Common chickweed	
		Rosette		Canada thistle White cockle
	810 g ae/ha	Weeds up to 15 cm in height	All annual grasses listed above plus: Crab grass (large and smooth) Annual blue grass All annual broadleaved weeds listed above plus: Prickly lettuce, Shepherd's purse Annual sow thistle Narrow-leaved vetch	
<p>Do not apply to durum wheat.</p> <p>Do not make more than one application per season.</p> <p>Do not allow livestock to graze on wheat or wheat forage, hay, or straw less than 42 days after the application.</p> <p>* Weed suppression is a visual reduction in weed competition (reduced population or vigour) as compared to an untreated area. Degree of suppression will vary with size of weed and environmental conditions prior to and following treatment.</p>				

SECTION 11: ROTATIONAL CROP GUIDELINES

The following table shows the minimum interval in months from the time of the last PF-100-0050 Herbicide application until PF-100-0050 Herbicide treated soil can be re-planted to the crops listed as follows.

Rotational crops and replant intervals for PF-100-0050 Herbicide.

Rotational Crop	Replant Interval
Spring wheat (excluding durum) and winter wheat	24 hours
Barley, bulb onion, canola, chickpea, field corn, edamame, field peas, flax, leek, lentil, mint, mustard, oats, potato, safflower,	12 months

Rotational Crop	Replant Interval
soybean, sunflower, durum wheat	

Conduct a field bioassay (a test strip grown to maturity) to confirm crop safety prior to seeding or transplanting any rotational crops other than crops mentioned in this section.

REPLANTING INSTRUCTIONS

If initial planting of labeled crops fails to produce a stand, only labeled crops for PF-100-0050 Herbicide, may be planted. **DO NOT** retreat field with PF-100-0050 Herbicide. Do not plant treated fields with any crop at intervals that are inconsistent with the Rotational Crop Guidelines on this label. When replanting use minimum soil tillage to preserve the herbicide barrier and achieve maximum weed control.

SECTION 12: RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, PF-100-0050 Herbicide is a Group 2 and Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to PF-100-0050 Herbicide and other Group 2 or Group 15 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 PF-100-0050 Herbicide or other Group 2 and Group 15 herbicides within a growing season (sequence) or among growing seasons with different 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 FMC at

<https://ag.fmc.com/ca/en>

SECTION 13: STORAGE

Store this product away from food or feed.

Store in original containers only, in a cool, dry, well-ventilated location. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

SECTION 14: DISPOSAL

For refillable containers:

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

For returnable containers:

DO NOT reuse this container for any purpose. For disposal, the empty container may be returned to the point of purchase (distributor/dealer).

For recyclable containers:

DO NOT reuse this container for any purpose. This is a recyclable container and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/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.

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