

2020-0038
2020-04-01



GROUP	3	INSECTICIDE
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decis® FLOWABLE INSECTICIDE

FOR SALE FOR USE ONLY IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION
OF BRITISH COLUMBIA

COMMERCIAL

REGISTRATION NUMBER 20078 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: deltamethrin.....50 g/L

Contains 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0009% and 2-methyl-4- isothiazolin-3-one
at 0.0003% or Propylparaben at 0.08% as a preservative.

DANGER POISON

TRIPLE RINSE

SEVERE EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

BAYER CROPSCIENCE INC.
Suite 200, 160 Quarry Park Blvd. SE
Calgary, AB
T2C 3G3

1-(888) 283-6847

NET CONTENTS: 1, 2, 10, 200 Litres and Bulk

IN CASE OF SPILLS, POISONING OR FIRE, TELEPHONE EMERGENCY RESPONSE
NUMBER, 1-800-334-7577 (24 HOURS A DAY)

decis® is a registered trademark of Bayer CropScience.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. decis Flowable Insecticide is a skin sensitizer. Avoid contact. Do not breathe vapour or spray mist.

Protective Clothing and Equipment: Wear protective clothing such as coveralls, a long-sleeved shirt, chemical resistant gloves and apron, eye protection (goggles or face shield) and respirator during mixing, loading and cleanup. Workers must wear a respirator with either a NIOSH approved organic vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH approved canister approved for pesticides when mixing, loading and applying deltamethrin using mechanically pressurized handgun equipment. Change contaminated clothing daily and wash, separate from other laundry, before reusing. Clean protective equipment daily. **DO NOT** handle product with bare hands. Chemical resistant gloves significantly reduce hand exposure.

ALWAYS wear gloves for mixing/loading operations and when making sprayer and nozzle repairs and adjustments. **DO NOT USE LEATHER OR CLOTH GLOVES.** Rinse gloves with soap and water before removal, and wash hands thoroughly before eating, smoking or drinking.

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.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Inc. at 1-888-283-6847 or www.cropscience.bayer.ca

FIRST AID: Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention. **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. **EYE CONTACT:** 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. **SKIN OR CLOTHING CONTACT:** 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. **INHALATION:** 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.

TOXICOLOGICAL INFORMATION:

Skin exposure may cause transient sensations (tingling, burning, itching, numbness). Treat symptomatically.

Medical personnel should contact Bayer CropScience medical information services toll-free 1-800-334-7577. This product contains antifreeze. The treatment of intoxication should be symptomatic and supportive. If the product has been ingested, carry out gastric lavage with care to prevent aspiration.

ENVIRONMENTAL PRECAUTIONS:

TOXIC to aquatic organisms. Observe buffer zones specified under **DIRECTIONS FOR USE**.

Toxic to small wild mammals.

TOXIC TO BEES. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance “Protecting Pollinators during Pesticide Spraying – Best Management Practices” on the Health Canada website (www.canada.ca/pollinators).

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. Deltamethrin may impact predatory and parasitic arthropod species used in IPM programs within the treatment area. Unsprayed refugia for beneficial species of at least 1 metre from treatment area will help maintain beneficial arthropod populations.

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 of this product 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.

STORAGE: Store this product away from food or feed. Keep away from fire, open flame or other sources of heat. This product **CANNOT** be stored below freezing. If stored for 1 year or longer, shake well before using. Keep in original container during storage.

DISPOSAL:

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 requirements.

FOR RETURNABLE CONTAINERS: Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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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 information on disposal of unused, unwanted product, contact Bayer CropScience or the provincial regulatory agency. Contact Bayer CropScience 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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For More Information, Contact:

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GENERAL INFORMATION

Section 1: The Product

For sale for use only in the Prairie Provinces and Peace River region of British Columbia.

For use on grasshoppers and flea beetles only.

decis Flowable Insecticide is not a systemic product and controls insects through contact and/or ingestion.

SAFETY AND HANDLING

Section 2: Precautions, Protective Clothing and Equipment

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. decis Flowable Insecticide is a skin sensitizer. Avoid contact. Do not breathe vapour or spray mist.

Protective Clothing and Equipment:

- Wear protective clothing such as coveralls, a long-sleeved shirt, chemical resistant gloves and apron, eye protection (goggles or face shield) and respirator during mixing, loading and cleanup.
- Change contaminated clothing daily and wash, separate from other laundry, before reusing. Clean protective equipment daily.
- **DO NOT** handle product with bare hands. Chemical resistant gloves significantly reduce hand exposure. **ALWAYS** wear gloves for mixing/loading operations and when making sprayer and nozzle repairs and adjustments. **DO NOT USE LEATHER OR CLOTH GLOVES.** Rinse gloves with soap and water before removal, and wash hands thoroughly before eating, smoking or drinking.
- Workers must wear a respirator with either a NIOSH approved organic vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH approved canister approved for pesticides when mixing, loading and applying deltamethrin using mechanically pressurized handgun equipment.
- 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.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Inc. at 1-888-283-6847 or www.cropscience.bayer.ca

Section 3: First Aid and Toxicological Information

FIRST AID:

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

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.

EYE CONTACT: 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.

SKIN OR CLOTHING CONTACT: 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.

INHALATION: 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.

TOXICOLOGICAL INFORMATION:

Skin exposure may cause transient sensations (tingling, burning, itching, numbness). Treat symptomatically.

This product contains antifreeze. Medical personnel should contact the Bayer CropScience medical information services toll-free 1-800-334-7577. The treatment of intoxication should be symptomatic and supportive. If the product has been ingested, carry out gastric lavage with care to prevent aspiration.

Section 4: Environmental Precautions and Information

TOXIC to aquatic organisms. Observe buffer zones specified under **DIRECTIONS FOR USE**

Toxic to small wild mammals.

TOXIC TO BEES. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance “Protecting Pollinators during Pesticide Spraying – Best Management Practices” on the Health Canada website (www.canada.ca/pollinators).

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. Deltamethrin may impact predatory and parasitic arthropod species used in IPM programs within the treatment area. Unsprayed refugia for beneficial species of at least 1 metre from treatment area will help maintain beneficial arthropod populations.

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 of this product 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.

Section 5: Storage

Store this product away from food or feed.

Keep away from fire, open flame, or other sources of heat.

This product CANNOT be stored below freezing.

If stored for 1 year or longer, shake well before using.

Do not use or store in or around the home.

Keep in original container during storage.

Section 6: DISPOSAL

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 requirements.

FOR RETURNABLE CONTAINERS: Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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

DIRECTIONS FOR USE

Section 7: Application Instructions and Cautions

APPLICATION INSTRUCTIONS:

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

DO NOT apply using handheld or automated fogging, mist blower, or airblast equipment.

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.

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

Use sufficient water to ensure thorough, uniform coverage over entire plant surface for optimum insect control. More water may be required when dense foliage is present and depending on the type of spray equipment used. Thorough wetting of all plants is essential for good results. Use 50-mesh or larger line strainers and screens.

decis Flowable Insecticide may be applied by air only on crops where aerial application is specified.

Field sprayer 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 8 km/h at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Air-induction nozzles must be used for the ground application of this product. Boom height must be 60 cm or less above the crop or ground.

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 8 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) medium-coarse classification. **DO NOT** apply under weather conditions of less than 50% relative humidity and temperatures greater than 20°C. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

decis Flowable Insecticide may be applied by aircraft to Wheat, Barley, Oats, Flax, Rapeseed, Canola (including Triazine Tolerant Canola), Mustard, Lentils, Range land and Pastures.

Apply only by fixed-wing or rotary aircraft equipment, which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rate and conditions of this label. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use,

this product cannot be applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

AERIAL USE PRECAUTIONS:

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.. Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

AERIAL OPERATOR PRECAUTIONS:

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot has communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

AVOID APPLICATION WHEN TEMPERATURE INVERSIONS ARE PREVAILING OR DURING PERIODS OF EXCESS HEAT (over 25°C) as control will be reduced. Best control will be achieved when decis Flowable Insecticide is applied during the cooler portions of the day (normally early morning or at dusk).

USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.

Buffer zones:

Spot treatments using hand-held equipment **DO NOT** require a buffer zone.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:			
		Freshwater Habitat of Depths:		Terrestrial Habitat	
		Less than 1 m	Greater than 1 m		
Field sprayer	Canola (triazine tolerant), rapeseed, mustard, barley, flax, oat, wheat, lentil, rangeland, pasture.	1	1	0	
Aerial	Wheat, barley, oat, flax, lentil, pasture, rangeland (2 x 6 g a.i./ha)	Fixed wing	25	10	0
		Rotary wing	20	10	0
	Canola (triazine tolerant), mustard, rapeseed (1 x 7.5 g a.i./ha)	Fixed wing	15	10	1
		Rotary wing	10	5	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.

Buffer zones for field sprayer or aerial application of this product CANNOT be modified using the Buffer Zone Calculator on the PMRA website.

TANK MIX COMBINATIONS

decis Flowable Insecticide can be tank mixed with Puma¹²⁰ Super for the control of grasshoppers and annual grassy weeds or with Puma¹²⁰ Super and Buctril M for the control of grasshoppers and annual grassy and broadleaf weeds IN SPRING WHEAT AND DURUM WHEAT ONLY (see list of susceptible weeds on the respective herbicide labels).

The durum wheat cultivar “Plenty” may sustain an elevated level of injury following application of decis Flowable Insecticide with Puma¹²⁰ Super and Buctril M.

Carefully read the respective labels for proper use.

When tank mixtures are used, the labels of the tank mix partners are to be consulted and the largest (most restrictive) buffer zone of the products involved in the tank mixture is to be observed.

Section 8: Crops, Insects, Rates, Timing

CROP	INSECTS	RECOMMENDATIONS	RATE
Canola (including Triazine)	Flea Beetle	GROUND Apply once per year when insects are present. decis Flowable Insecticide controls only those insects present. Application	100-150 mL/ha in 110 L/ha of water

Tolerant Canola), Rapeseed, Mustard		should be made when the beetles are actively feeding. Under severe insect pressure, application should also be made to a 15- metre strip of the uncultivated area bordering the field.	
	Flea Beetle	AERIAL Apply once per year by air if required. Read instructions for Aerial Application in Section 7.	100-150 mL/ha in 11-22 L/ha of water
DO NOT apply to adjacent unregistered crops DO NOT apply within 7 days of harvest.			
Range land, Pastures ¹	Grasshoppers	GROUND Apply when insects are young or signs of insect damage are evident. Apply when Grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development. The higher rate should be used when the proportion of mature and late nymphal stages in the population is high and/or the crop canopy is dense, inhibiting spray penetration.	80 – 120 mL/ha in 100 – 200 L/ha of water
	Grasshoppers	AERIAL Use as directed and follow instructions for Aerial Application in Section 7 of the product label.	120 mL/ha in 11 – 22 L/ha of water.
DO NOT apply to adjacent unregistered crops DO NOT apply more than two times per year by air. DO NOT use more than 3 applications of decis Flowable Insecticide per year; for example, 3 ground applications or 2 ground/1 air or 2 air/1 ground. ¹ Under severe insect pressure, application should also be made along fence rows as a 15-metre strip.			

Wheat, Barley, Oats, Flax, Lentils	Grasshoppers	<p>GROUND</p> <p>Follow Provincial forecast. Apply when young insects are present or signs of damage are evident. Apply when grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development.</p> <p>Under severe insect pressure, application should also be made to a 15-metre strip of the uncultivated area bordering the field. To achieve contact control of young grasshoppers (2-4 nymphal stages) use the lower rate of decis Flowable Insecticide. The high rate (120 mL/ha) will provide residual control for up to 10 days under ideal conditions. The level of residual control will depend on environmental conditions and plant growth. Excessive heat or rapid plant growth will result in reduced residual control.</p>	80-120 mL/ha in 110-220 L/ha of water
		The higher rate should be used when the proportion of late nymphal stages in the population is high and the canopy is dense, inhibiting penetration.	
	Grasshoppers	<p>AERIAL</p> <p>Read instructions for Aerial Application in Section 7. DO NOT make aerial application of decis Flowable Insecticide tank mixed with Buctril M herbicide and Puma¹²⁰ Super herbicide on spring and durum wheat and spring barley .</p>	80-120 mL/ha in 11-22 L/ha of water
<p>DO NOT apply to adjacent unregistered crops. DO NOT use more than 3 applications per year. For example, 3 ground applications or 2 ground/1 air or 2 air/1 ground. Use a maximum of 2 aerial applications per year. Minimum interval between applications: 5 days. DO NOT apply to Oats within 31 days of harvest. DO NOT apply to Wheat, Barley and Flax within 40 days of harvest. DO NOT apply to LENTILS within 30 days of harvest.</p>			

RATE RANGE: Where a rate range is given in the Directions For Use, the higher rate should be used when:

- the crop canopy is dense and foliage is inhibiting spray penetration;

- a number of insect growth stages are present (for example 1st through 5th nymphal stages of Grasshoppers);
- insect populations are very high.

TIMING: For maximum efficacy, it is necessary to:

- keep crop and pest under observation to be able to spray at the right moment;
- ensure that insects are contacted during spraying, especially if they are found on the underside of leaves or if the foliage is very dense;
- unless otherwise stated, apply decis Flowable Insecticide when insects first appear and repeat as required to maintain control.

Follow Provincial recommendations.

Section 9: Mixing Instructions

The volumes of water may vary greatly, depending on the equipment, the crop, and cultural conditions. The volumes of water to be used will vary between 10 and 220 litres per hectare. Ensure spray tank is thoroughly clean. Fill sprayer half-full with clean water. Add product while agitating. Add the remaining amount of water.

Section 10: Resistance Management Recommendations

For resistance management, please note that decis Flowable Insecticide contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to decis Flowable Insecticide and other Group 3 insecticides. The resistant individuals may dominate the insect population if this group of insecticides 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 insecticide resistance:

- Where possible, rotate the use of decis Flowable Insecticide with different groups that control the same pests;
- Use tank mixtures with insecticides from a different group when such use is permitted;
- Insecticide use should be based on an integrated pest management (IPM) program that includes scouting and record keeping and considers cultural, biological, and other chemical control practices;
- Monitor treated pest populations for resistance development;
- Contact the local extension specialist or certified crop advisors for any additional pesticide resistance-management and IPM recommendations for the specific site and pest problems in the area;
- For further information or to report suspected resistance, contact Bayer CropScience at 1-888-283-6847.

Section 11: Livestock Feeding and Pre-Harvest Intervals

Crop	Pre-Harvest Interval (Days)	Crop	Pre-Harvest Interval (Days)
Barley	40	Mustard	7
Canola, Rapeseed	7	Oats	31
Flax	40	Wheat	40
Lentils	30		

Section 12: Notices

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.

FOR MORE INFORMATION CONTACT:

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