

2019-5512  
2019-12-02

**GROUP 6 HERBICIDE**

**Benchmark B  
HERBICIDE**

CONTAINS BROMOXYNIL EMULSIFIABLE CONCENTRATE

For use in selected cereal crops to control seedling hard-to-kill annual weeds.

**AGRICULTURAL**

**READ THE LABEL AND BOOKLET BEFORE USING**

**ACTIVE INGREDIENT:**

Bromoxynil, present as octanoate ester ... 235 g/L

REGISTRATION NUMBER 28876 PEST CONTROL PRODUCTS ACT

WARNING {symbol} POISON  
DANGER: EYE AND SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER

(1 – 450) Litres

Nufarm Agriculture Inc.  
5101, 333 - 96th Ave NE  
Calgary, Alberta T3K 0S3

For information, contact:  
Dow AgroSciences Canada, Inc.  
Suite 2100, 450-1<sup>st</sup> Street SW  
Calgary, Alberta  
T2P 5H1  
1-800-667-3852

Benchmark is a trademark of Dow AgroSciences LLC

**PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN. POTENTIAL SKIN SENSITIZER. WARNING POISON. Do not get into eyes, on skin or on clothing. Store the container, tightly closed, away from seeds, fertilizer, plants and foodstuffs. Wash concentrate from skin or eyes immediately. Do not inhale spray mist. After use wash hands and other exposed skin. Avoid spray drift onto crops other than those recommended. Avoid contamination of ponds, streams, rivers and other water sources. Wear goggles or a face shield during mixing/loading operations.

Do not use in residential areas, which are defined as sites where bystanders may be present during or after spraying, including homes, schools, parks, playgrounds, playing fields, and public buildings.

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.

**Ground applications:** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair. Wear a long-sleeved shirt and long pants, chemical resistant gloves, and socks plus shoes during applications. Gloves are not required during application within a closed cab.

**Aerial applications: the field crew and the mixer/loaders:** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair.

**Aerial applicators:** Wear a long-sleeved shirt, long pants, socks and shoes during application. Gloves are not required during application within a closed cockpit. Do not allow the pilot to mix chemicals to be loaded onto the aircraft.

Wear a chemical-resistant apron during mixing/loading activities.

Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

DO NOT apply this product in a way that this product will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area being treated during application.

**ENVIRONMENTAL PRECAUTIONS:**

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

This product contains a petroleum distillate that is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

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.

**PRE-HARVEST GRAZING INTERVALS: (wheat, barley, oats)**

Do not use treated crops for grazing of livestock or green feed until 30 days after application of Benchmark B Herbicide. Do not cut treated crops for forage until 30 days after application of Benchmark B Herbicide.

**CAUTION:**

Do not graze other treated crops or cut for hay, unless specified above; sufficient data are not available to support such use.

**FIRST AID:**

Remove person from contaminated area, remove contaminated clothing. Keep patient warm, comfortable, at rest.

**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 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 swallowed:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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

**TOXICOLOGICAL INFORMATION:**

This product contains PETROLEUM DISTILLATES. Vomiting may cause aspiration pneumonia. Treat symptomatically.

**STORAGE CONDITIONS:**

Benchmark B Herbicide will solidify below minus 20°C but will become usable at temperatures above 0°C. Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination.

SHAKE WELL BEFORE USING.

**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 Returnable-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 the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *PEST CONTROL PRODUCTS ACT* to use this product in a way that is inconsistent with the directions on the label.

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**GENERAL INFORMATION & DIRECTIONS FOR USE: .....SECTION 1**

**WEEDS CONTROLLED.....SECTION 2**

**APPLICATION & MIXING INSTRUCTIONS  
FOR GROUND OR AIR .....SECTION 3**

**CROP INSTRUCTIONS**

**Barley** (not underseeded to legumes) .....SECTION 4

**Oats** (not underseeded to legumes) .....SECTION 5

**Wheat** (Spring - not underseeded to legumes) .....SECTION 6

**IMPORTANT SAFETY INFORMATION .....SECTION 7**

Precautions

Pre-Harvest Grazing Intervals

First Aid

Toxicological Information

Storage

Disposal

## **SECTION 1:**

### **GENERAL INFORMATION:**

Benchmark B Herbicide controls spring germinating weeds such as wild buckwheat, tartary buckwheat and green smartweed. Benchmark B Herbicide works best applied to seedling weeds. Benchmark B Herbicide is a low volatile ester formulation. Benchmark B Herbicide applied as directed controls some weeds, which deprive young cereal crops of vital moisture and fertilizer, reduces contamination of crops with weeds seeds, improves quality and makes harvesting easier. Benchmark B Herbicide is a contact herbicide. Thorough coverage of the weed seedlings is essential for optimum control.

### **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.

### **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, Benchmark B Herbicide is a Group 6 herbicide. Any weed population may contain or develop plants naturally resistant to Benchmark B Herbicide and other Group 6 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 Benchmark B Herbicide or other Group 6 herbicides 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.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- 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 Dow AgroSciences Canada Inc. at 1-800-667-3852.

## **SECTION 2:**

### **APPLICATION TIMING:**

For best results, spray up to 4-leaf stage of weeds. Apply in good growing conditions. Application must be made before the crop shields the weeds.

### **WEEDS CONTROLLED BY Benchmark B Herbicide ALONE**

#### **Seedlings up to 4-leaf stage:**

Green smartweed	Common Ragweed
Pale smartweed	Triazine Resistant Pigweed
Lady's-thumb	Cocklebur
Bluebur	Russian thistle **
Kochia **	Wild Mustard *
Cow Cockle *	Stinkweed *
Velvet leaf ***	American nightshade

#### **Seedlings up to 8 leaf stage:**

Wild buckwheat	Tartary buckwheat
Common buckwheat	Common groundsel
Lamb's-quarters	

\* Under normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.

\*\* Spray before plants are 5 cm high.

\*\*\* Spray before plants are 8 cm high.

## **SECTION 3:**

### **APPLICATION AND MIXING INSTRUCTIONS FOR GROUND OR AIR**

**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) medium classification. 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 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) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle

distribution along the spray boom length MUST NOT exceed 65% of the wingspan or rotorspan.

**MIXING INSTRUCTIONS:**

1. Fill spray tank half full with clean water.
2. Add required amount of Benchmark B Herbicide. Begin agitation.
3. If tankmixing, add the recommended amount of the tank mix partner product to the spray tank first, agitate, and then add Benchmark B Herbicide (unless otherwise directed).
4. Complete filling spray tank with water, continue agitation.

**APPLICATION RATE:**

1.2 L/ha.

Wash out spray tank and lines and clean all filters, screens and tips. Select nozzle tips to apply the recommended volume of water per hectare. Flood jet type tips are not recommended. Adjust boom height to ensure uniform coverage of weeds. For ground applications, spray at 5-10 km/h. Calibrate sprayer and ensure that all tips are in good condition and spraying the same volume.

**ENVIRONMENTAL PRECAUTIONS:**

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

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

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 or fine textured such as 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.

**BUFFER ZONES:**

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), sensitive freshwater habitats (such as lakes, rivers, sloughs ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop		Buffer Zones (metres) Required for the Protection of:				Terrestrial Habitat
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	All crops		1	1	1	1	1
Aerial	Oats	Fixed wing	15	2	1	1	50
		Rotary wing	15	1	1	1	45
	Barley and wheat	Fixed wing	20	5	1	1	55
		Rotary wing	20	3	1	1	45

\* For field sprayer application, buffer zones can be reduced with the use of drift-reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

When a tank mixture is used, consult the labels of the other tank-mix ingredients and observe the largest (most restrictive) buffer zone of the products included in the tank mixture.

### **Generic Aerial Application Label Instructions**

#### **Directions for Use**

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 rates 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.

### **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.

### **Operator Precautions**

Wear a long-sleeved shirt, long pants, socks and shoes during application. Gloves are not required during application within a closed cockpit. 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 have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls over a long-sleeved shirt, long pants, socks and shoes and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

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.

### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 20 litres per hectare.

### **FOR AERIAL APPLICATION refer to the following 12 points.**

1. Weeds must be treated at the recommended growth stages while actively growing. Weed stage should be checked prior to spraying.
2. Benchmark B Herbicide must be applied in volume rates of not less than 20 L/ha.

For best results when there is a heavy crop canopy, or when the majority of the weeds are cow cockle, smartweed, hempnettle, pigweed or Canada thistle, a volume rate of 40 L/ha is recommended.

3. The application rate per hectare of Benchmark B Herbicide must not be reduced.
4. Effective swath width (as determined by boom width and spray pattern overlaps) must be accurately maintained. Conduct tests to determine the effective swath width of your aircraft. (For example, the effective swath width may be less than one half of the overall swath).
5. Flat-fan or hollow cone nozzles are recommended.
6. Nozzles should be positioned to compensate for prop-wash and wing-tip vortex effects. Nozzles should not be placed within 1 m of wing-tips.
7. Nozzles orientations (measured from direction of flight) to achieve desired minimum droplet density with maximum coverage.

VOLUME RATE	NOZZLE TYPE	NOZZLE ORIENTATION
20 L/ha	Flat Fan	90°
	Hollow Cone	135°
30 L/ha	Flat Fan	90 – 135°
	Hollow Cone	135°
40 L/ha	Flat Fan	135°
	Hollow Cone	135 – 180°

8. Efficient trackmarking is essential ("Automatic Flagmen" markers should only be used as a back-up system).
9. Avoid spraying in temperatures greater than 25°C.
10. Spray only when wind is blowing away from a sensitive crop.
11. Do not spray in a dead calm and when wind speed exceeds 8 km per hour.
12. For aerial application mixers/loaders must wear coveralls over normal working clothes.

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<b>Spray Pressure:</b>	Ground	275 kPa.
	Air	Use pressures at the lower end of the range recommended by the nozzle manufacturer.
<b>Nozzles:</b>	Ground	Flat Fan recommended <b>Do not Use Flood Jet Nozzles.</b>
	Air	See point 7 above.

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#### SECTION 4:

BARLEY (not underseeded to legumes)

<b>Benchmark B Herbicide ALONE</b>	
<b>Weeds Controlled:</b>	See Section 2.

<b>Crop Treatment Stage:</b>	From the 2-leaf to early flag-leaf stage, but not after the boot stage.
<b>Application Method:</b>	Ground - apply in 100 litres of water per hectare. Air - apply in 20-40 litres of water per hectare. See Section 3.
<b>Application Rate:</b>	1.2 L/ha.

### SECTION 5:

OATS (not underseeded to legumes)

<b>Benchmark B Herbicide ALONE</b>	
<b>Weeds Controlled:</b>	See Section 2.
<b>Crop Treatment Stage:</b>	From the 2-leaf to early flag-leaf stage. Apply before weeds are past the 4- to 5-leaf stage.
<b>Application Method:</b>	Ground application only. DO NOT apply using aerial application equipment. Apply in 50 - 100 litres of water per hectare. See Section 3.
<b>Application Rate:</b>	1.2 L/ha.

### SECTION 6:

WHEAT: (spring) (not underseeded to legumes)

<b>Benchmark B Herbicide ALONE</b>	
<b>Weeds Controlled:</b>	See Section 2.
<b>Crop Treatment Stage:</b>	Spring Wheat - From the 2-leaf to early flag stage, but not at or after the boot stage. Apply before weeds are past the 4- to 5-leaf stage.
<b>Application Method:</b>	Ground - apply in 50-100 litres of water per hectare. Air - apply in 20-40 litres of water per hectare. See Section 3.
<b>Application Rate:</b>	1.2 L/ha.

### SECTION 7:

#### SAFETY INFORMATION

#### PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. POTENTIAL SKIN SENSITIZER.  
WARNING POISON. Do not get into eyes, on skin or on clothing. Store the container,

tightly closed, away from seeds, fertilizer, plants and foodstuffs. Wash concentrate from skin or eyes immediately. Do not inhale spray mist. After use wash hands and other exposed skin. Avoid spray drift onto crops other than those recommended. Avoid contamination of ponds, streams, rivers and other water sources. Wear goggles or a face shield during mixing/loading operations.

Do not use in residential areas, which are defined as sites where bystanders may be present during or after spraying, including homes, schools, parks, playgrounds, playing fields, and public buildings.

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.

**Ground applications:** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair. Wear a long-sleeved shirt and long pants, chemical resistant gloves, and socks plus shoes during applications. Gloves are not required during application within a closed cab.

**Aerial applications: the field crew and the mixer/loaders:** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair.

**Aerial applicators:** Wear a long-sleeved shirt, long pants, socks and shoes during application. Gloves are not required during application within a closed cockpit. Do not allow the pilot to mix chemicals to be loaded onto the aircraft.

Wear a chemical-resistant apron during mixing/loading activities. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

DO NOT apply this product in a way that this product will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area being treated during application.

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**PRE-HARVEST GRAZING INTERVALS: (wheat, barley, oats)**

Do not use treated crops for grazing of livestock or green feed until 30 days after application of Benchmark B Herbicide. Do not cut treated crops for forage until 30 days after application of Benchmark B Herbicide.

**CAUTION:**

Do not graze other treated crops or cut for hay, unless specified above; sufficient data are not available to support such use.

**FIRST AID:**

Remove person from contaminated area, remove contaminated clothing. Keep patient warm, comfortable, at rest.

**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 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 swallowed:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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

**TOXICOLOGICAL INFORMATION:**

This product contains PETROLEUM DISTILLATES. Vomiting may cause aspiration pneumonia. Treat symptomatically.

**STORAGE CONDITIONS:**

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SHAKE WELL BEFORE USING.

**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 Returnable-Refillable Containers:**

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