

# **BROMOX 450 M**

**EMULSIFIABLE HERBICIDE**



<b>GROUP</b>	<b>4 6</b>	<b>HERBICIDE</b>
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Contains Bromoxynil and MCPA

for use in  
WHEAT (spring, durum & winter), BARLEY  
OATS, FLAX (including low linolenic varieties), CORN (field, sweet), FALL RYE  
CANARY SEED (for seed production)  
SEEDLING GRASSES, ESTABLISHED GRASSES

AGRICULTURAL

GUARANTEE:

Bromoxynil (present as esters) .....225 g/L  
MCPA equivalent (present as 2-ethylhexyl ester) .....225 g a.e./L

REGISTRATION NO. 17145  
PEST CONTROL PRODUCTS ACT



WARNING

POISON

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

Bayer CropScience  
Suite 100, 3131 114<sup>th</sup> Avenue SE  
Calgary, Alberta T2Z 3X2  
Product Information: 1-888-283-6847

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

NET CONTENTS: 4 L – 200 L

## **PRECAUTIONS:**

**KEEP OUT OF REACH OF CHILDREN.**

Avoid contact with skin, eyes and clothing.

Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. Wash concentrate from skin or eyes immediately.

Avoid working in spray mist.

After use wash hands and other exposed skin.

For both ground and aerial application, wear a long-sleeved shirt, long pants, socks, shoes and chemical-resistant nitrile gloves (e.g. Edmont Sol-Vex #37-155/#37-145 or Pioneer A-15) which are in good condition when mixing/loading, spraying, and during clean up and repair. In addition, wear coveralls over a long-sleeved shirt and long pants, and a chemical-resistant apron, during mixing/loading activities. Aerial applicators and applicators using a closed cab are not required to wear chemical-resistant gloves.

Do NOT apply this product in a way that 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 the application.

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 the product's concentrate. DO NOT reuse them.

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

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.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at [www.croplife.ca](http://www.croplife.ca)

**PRE-HARVEST GRAZING INTERVALS:** Do not use treated crops for grazing of livestock or green feed until 30 days after application of BROMOX 450 M Emulsifiable Herbicide. Do not cut treated crops for forage until 30 days after application of BROMOX 450 M Emulsifiable Herbicide. Withdraw meat animals from treated fields at least 3 days before slaughter.

## **ENVIRONMENTAL HAZARDS:**

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. This product is also toxic to non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment. Avoid contamination of ponds, streams, rivers and other water sources.

**Surface Runoff:** To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine-textured, or low in organic matter such as clay). Avoid applying this product when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body.

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

### **FIRST AID:**

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

### **TOXICOLOGICAL INFORMATION:**

Medical Personnel should contact Bayer's Medical Information Services, Toll-Free: 1-800-334-7577. This product contains an aromatic hydrocarbon solvent. Vomiting may cause aspiration pneumonia. High concentrations of MCPA may cause severe irritation to the eyes. Symptoms of overexposure to MCPA could include slurred speech, twitching, jerking and spasms, drooling, low blood pressure and unconsciousness. Treat symptomatically.

### **STORAGE CONDITIONS:**

This BROMOX 450 Emulsifiable Herbicide formulation will solidify at temperatures below -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.

### **DISPOSAL:**

#### **RECYCLABLE CONTAINER 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 requirements.

#### **RETURNABLE CONTAINER DISPOSAL:**

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

### **REFILLABLE CONTAINER DISPOSAL:**

For disposal, this empty 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.

### **DISPOSAL OF UNUSED, UNWANTED PRODUCT:**

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 cleanup 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. The user assumes the risk to persons or property that arises from any such use of this product.

## **DIRECTIONS FOR USE:**

**TIMING:** For best results, spray when weeds are in the seedling stage. Apply in good growing conditions. Application **must** be made before the crop shields the weeds.

**SPRAYER:** Wash the tank and clean all filters, screens and tips. Select nozzle tips to apply the recommended volume per hectare. Flood jet type tips are not recommended.

### **FIELD SPRAYER APPLICATIONS**

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification. Boom height must be 60 cm above crop or ground. Adjust boom height to ensure uniform coverage of the weeds. Spray at 5 – 10 Kph. Ensure that all tips are in good condition and spraying the same volume.

### **FOR AERIAL APPLICATION (wheat, barley and oats only):**

#### **Aerial Application Instructions**

DO NOT apply during periods of dead clam. 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) coarse 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.

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.

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.

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.

### **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 have communication capabilities at each treatment site at the time of application.

Aerial applicators must wear long pants and a long-sleeved shirt. The field crew and the mixer/loaders must wear long pants and long-sleeved shirt, chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Aircraft must be closed cab. Mixer/loader and applicator must be different individuals. No human flaggers permitted.

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 Bayer CropScience Inc. at 1-888-283-6847 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:

1. Weeds must be treated at the *recommended* growth stages while actively growing. Weed stage should be checked prior to spraying.
2. BROMOX 450 M Emulsifiable 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 1.25 L/ha rate of BROMOX 450 M Emulsifiable 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. Orient nozzles (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 track-marking 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 Kph.

**MIXING:** Half fill the tank with clean water. Add the required amount of BROMOX 450 M Emulsifiable Herbicide and agitate thoroughly. Fill the tank and agitate again before use.

**BUFFER ZONES:** Use of the following spray methods or equipment DO NOT require a buffer zone: handheld or backpack sprayer and spot treatment.

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 scrublands, 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 (meters) 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	4
Aerial	Oats	Fixed Wing	15	2	1	1	60
		Rotary Wing	15	1	1	1	50
	Barley and wheat	Fixed Wing	20	5	1	1	60
		Rotary Wing	20	3	1	1	50

\* 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 labeled 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 labeled 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.

### **HERBICIDE RESISTANCE MANAGEMENT:**

For resistance management, BROMOX 450 M Emulsifiable Herbicide is a Group 4 and 6 herbicide. Any weed population may contain or develop plants naturally resistant to BROMOX 450 M Emulsifiable Herbicide and other Group 4 and 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 BROMOX 450 M Emulsifiable Herbicide or other Group 4 and 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 your local Bayer representative, or call Bayer CropScience Inc. toll-free at 1-888-283-6847.

**WHEAT (Spring, Durum & Winter)  
(not underseeded to legumes)**

**BROMOX 450 M EMULSIFIABLE HERBICIDE  
USED ALONE:**

**SPRAY VOLUME & PRESSURE:** Apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** Spring and durum wheat may be treated from the 2-leaf until the early flag leaf stage. Winter wheat may be treated from the 2 to 4-leaf stage in the fall or from the time growth commences to the early flag leaf stage in the spring.

**APPLICATION RATE:** 1.25 L/ha. A maximum of one application per year.

**WEEDS CONTROLLED**

**Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade

**Seedlings up to 6-leaf stage**

Wild tomato

**Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

**Perennials: Top-growth checked**

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle 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.*

*\*\*\*Spring annuals only.*

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



WHEAT (CONTD)

## **BROMOX 450 M EMULSIFIABLE HERBICIDE + MCPA**

**SPRAY VOLUME & PRESSURE:** Apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** Spring and durum wheat may be treated from the 2-leaf until the early flag leaf stage.

**APPLICATION RATE:** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha tank-mixed with 275 g active ingredient MCPA per hectare. A maximum of one application per year.

**NOTE:** MCPA-K is preferred for hempnettle although other formulations may be used. Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add BROMOX 450 M Emulsifiable Herbicide.

### **WEEDS CONTROLLED**

As listed for BROMOX 450 M Emulsifiable Herbicide alone plus these additional weeds.

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

Hempnettle\*

*\*Hempnettle is unlikely to be controlled beyond the 4-leaf stage. Plants emerging after application, which is often the case on peat- type soils, will not be controlled.*

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

Volunteer rapeseed (including Canola)

WHEAT (CONTD)

**BROMOX 450 M EMULSIFIABLE HERBICIDE  
+ AVENGE 200-C\*  
(Spring Wheat and Durum Wheat)**

\*AVENGE 200-C is a registered trademark of Cyanamid.

Follow all precautions, limitations and timing recommendations on the AVENGE 200-C label.

**SPRAY VOLUME & PRESSURE:** Apply in 100 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** Spring wheat and durum wheat may be treated from the 2 to 6-leaf stage. Wild oats must be in the 3 to 5-leaf stage and broadleaf weeds in the seedling stage as indicated.

**APPLICATION RATE:** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha tank-mixed with AVENGE 200-C at 3.5 – 4.25 L/ha **OR** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha plus 275 g active ingredient MCPA ester per hectare tank-mixed with AVENGE 200-C at 3.5 – 4.25 L/ha. A maximum of one application per year.

**NOTE:** BROMOX 450 M Emulsifiable Herbicide should be added to the spray tank first, agitated, then add AVENGE 200-C. AVENGE 200-C can only be applied to certain varieties of spring wheat and durum wheat. Refer to the AVENGE 200-C label.

**WEEDS CONTROLLED**

As listed for BROMOX 450 M Emulsifiable Herbicide used alone or in combination with MCPA *plus* wild oats.

WHEAT (CONTD)

## **BROMOX 450 M EMULSIFIABLE HERBICIDE + ALLY\***

\*ALLY is a registered trademark of E.I. DuPont de Nemours and Company.

**NOTE:** Refer to the ALLY label for all precautions, including limitations on soil pH, crop rotations and sprayer cleanup.

**SPRAY VOLUME & PRESSURE:** Apply in NOT LESS than 100 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** Spring wheat and durum wheat (not underseeded with other crops) may be treated from the 2-leaf to early flag leaf stage.

**APPLICATION RATE:** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha tank-mixed with ALLY at 7.5 g/ha plus a surfactant as required on the ALLY label. Add ALLY to the required water volume in the tank first, agitate, then add BROMOX 450 M Emulsifiable Herbicide, agitate, then add the surfactant. On repeat tank loads, prepare an ALLY/water slurry and add it to the required water volume in the tank prior to adding the BROMOX 450 M Emulsifiable Herbicide. A maximum of one application per year.

### **WEEDS CONTROLLED:**

As listed for BROMOX 450 M Emulsifiable Herbicide alone at the recommended rate, plus hempnettle up to the 8 leaf stage (4 pairs of leaves), and chickweed up to 7 cm high. For best results, apply to the first main flush of young, actively growing weeds.

Do not apply this tank mix by air.

**BROMOX 450 M EMULSIFIABLE HERBICIDE  
+ HORIZON\* 240 EC  
(Spring Wheat and Durum Wheat only)  
For use in Manitoba, Saskatchewan, Alberta plus the  
Peace River Region of British Columbia only**

\*Horizon and \*\*Score are registered trademarks of Syngentia.

Follow all mixing and spraying precautions, limitations and timing recommendations on the Horizon 240 EC label. DO NOT APPLY BY AIR.

**SPRAY VOLUME & PRESSURE:** Apply in 100 liters of water per hectare at a pressure of 275 kPa.

**TIMING:** Applications of BROMOX 450 M Emulsifiable Herbicide + Horizon tank mixtures should be made to spring wheat and durum wheat from the 2-leaf until the early flag leaf stage of growth (total leaves including tillers) (Zadoks or BBCN growth stage of 11,20 to 14,21) and when wild oats are at the 1 - 6 leaf stage of growth (total leaves including tillers) (Zadoks or BBCN growth stage of 11,20 to 14,22) and when green foxtail (wild millet) or yellow foxtail is at the 1 - 5 leaf stage of growth (Zadoks or BBCN growth stage of 11,20 to 14,21).

**APPLICATION RATE:** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha tank-mixed with Horizon 240 EC at 230 ml/ha plus Score\*\* adjuvant at a concentration of 0.8% v/v (i.e. 800 mL/ha Score\*\* with 100 L/ha of water) for wild oat control. For wild oat and green or yellow foxtail control add 290 mL/ha Horizon 240 EC at 290 ml/ha plus Score\*\* adjuvant at a concentration of 1.0% v/v (i.e. 1L/ha Score\*\* with 100 L/ha of water). A maximum of one application per year.

**WEEDS CONTROLLED:**

As listed on the BROMOX 450 M Emulsifiable Herbicide alone plus wild oats and green foxtail (wild millet) and yellow foxtail.

**NOTE:** BROMOX 450 M Emulsifiable Herbicide + Horizon 240 EC tank mixtures can be used in all varieties of spring wheat (including hard red spring, Canada prairie spring, soft white spring, and utility) and durum.

Only apply this mixture to spring wheat that is NOT UNDERSEEDED TO LEGUMES.

Do not apply within 15 metres of a body of water or wetland area.

Rainfall within 1 hour of application may reduce effectiveness of tank-mix.

WHEAT (CONTD)

**BROMOX 450 M EMULSIFIABLE HERBICIDE  
+ PUMA\* SUPER EMULSIFIABLE CONCENTRATE POST-EMERGENT  
HERBICIDE**

**Spring Wheat and Durum Wheat  
For use in Manitoba, Saskatchewan, Alberta plus the  
Peace River Region of British Columbia only**

\*Puma is a registered trademark of Bayer.

Follow all mixing and spraying precautions, limitations and timing recommendations on the Puma label.

**SPRAY VOLUME & PRESSURE:** Apply in 100 liters of water per hectare at a pressure of 275 kPa.

**TIMING:** Applications of BROMOX 450 M Emulsifiable Herbicide + Puma tank mixtures should be made to spring wheat and durum wheat from the 2-6 leaf stage of growth on the main stem plus 3 tillers. Application beyond the 6 leaf stage of spring and durum wheat may result in crop injury. Apply when annual grassy weeds are in the 1-6 leaf stage of growth.

**APPLICATION RATE:** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha tank-mixed with Puma at 1.0 L/ha. A maximum of one application per year.

**WEEDS CONTROLLED:**

As listed on the BROMOX 450 M Emulsifiable Herbicide alone plus wild oats, green foxtail (wild millet) and yellow foxtail.

**NOTE:** BROMOX 450 M Emulsifiable Herbicide + Puma tank mixtures can be used in all varieties of spring wheat (including hard red spring, Canada prairie spring, soft white spring, and utility) and durum.

Do not apply within 15 metres of a body of water or wetland area.

Do not apply if rainfall is expected within 1 hour after spraying.

**BARLEY**  
**(not underseeded to legumes)**

**BROMOX 450 M EMULSIFIABLE HERBICIDE**  
**USED ALONE**

**SPRAY VOLUME & PRESSURE:** Apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** The crop may be treated from the 2-leaf until the early flag leaf stage.

**APPLICATION RATE:** 1.25 L/ha. A maximum of one application per year.

**WEEDS CONTROLLED**

**Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade

**Seedlings up to 6-leaf stage**

Wild tomato

**Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

**Perennials: Top-growth checked**

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle 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.*

*\*\*\*Spring annuals only.*

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

BARLEY (CONTD)

## **BROMOX 450 M EMULSIFIABLE HERBICIDE + MCPA**

**SPRAY VOLUME & PRESSURE:** Apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** The crop may be treated from the 2-leaf until the early flag leaf stage.

**APPLICATION RATE:** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha tank-mixed with 275 g active ingredient MCPA per hectare. A maximum of one application per year.

**NOTE:** MCPA-K is preferred for hempnettle although other formulations may be used. Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add BROMOX 450 M Emulsifiable Herbicide.

### **WEEDS CONTROLLED**

As listed for BROMOX 450 M Emulsifiable Herbicide alone plus these additional weeds.

**Seedlings up to 4-leaf stage**

Hempnettle\*

**Seedlings up to 8-leaf stage**

Volunteer rapeseed (including Canola)

*\*Hempnettle is unlikely to be controlled beyond the 4-leaf stage. Plants emerging after application, which is often the case on peat- type soils, will not be controlled.*

BARLEY (CONTD)

**BROMOX 450 M EMULSIFIABLE HERBICIDE  
+ AVENGE 200-C\***

\*AVENGE 200-C is a registered trademark of Cyanamid.

Follow all precautions, limitations and timing recommendations on the AVENGE 200-C label.

**SPRAY VOLUME & PRESSURE:** Apply in 100 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** The crop may be treated from the 2 to 6-leaf stage. Wild oats must be in the 3 to 5-leaf stage and broadleaf weeds in the seedling stage as indicated.

**APPLICATION RATE:** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha tank-mixed with AVENGE 200-C at 3.5 – 4.25 L/ha **OR** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha plus 275 g active ingredient MCPA ester per hectare tank-mixed with AVENGE 200-C at 3.5 – 4.25 L/ha. A maximum of one application per year.

**NOTE:** BROMOX 450 M Emulsifiable Herbicide should be added to the spray tank first, agitated, then add AVENGE 200-C.

**WEEDS CONTROLLED**

As listed for BROMOX 450 M Emulsifiable Herbicide used alone or in combination with MCPA *plus* wild oats.



BARLEY (CONTD)

## **BROMOX 450 M EMULSIFIABLE HERBICIDE + ALLY\***

\*ALLY is a registered trademark of E.I. DuPont de Nemours and Company.

**NOTE:** Refer to the ALLY label for all precautions, including limitations on soil pH, crop rotations and sprayer cleanup.

**SPRAY VOLUME & PRESSURE:** Apply in NOT LESS than 100 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** Barley (not underseeded with other crops) may be treated from the 2-leaf to early flag leaf stage.

**APPLICATION RATE:** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha tank-mixed with ALLY at 7.5 g/ha plus a surfactant as required on the ALLY label. Add ALLY to the required water volume in the tank first, agitate, then add BROMOX 450 M Emulsifiable Herbicide, agitate, then add the surfactant. On repeat tank loads, prepare an ALLY/water slurry and add it to the required water volume in the tank prior to adding the BROMOX 450 M Emulsifiable Herbicide. A maximum of one application per year.

### **WEEDS CONTROLLED**

As listed for BROMOX 450 M Emulsifiable Herbicide alone at the recommended rate, plus hempnettle up to the 8 leaf stage (4 pairs of leaves), and chickweed up to 7 cm high. For best results, apply to the first main flush of young, actively growing weeds. Do not apply this tank mix by air.

**OATS**  
**(not underseeded to legumes)**

**BROMOX 450 M EMULSIFIABLE HERBICIDE**  
**USED ALONE**

**SPRAY VOLUME & PRESSURE:** Apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** The crop may be treated from the 2-leaf until the early flag leaf stage.

**APPLICATION RATE:** 1.25 L/ha. A maximum of one application per year.

**WEEDS CONTROLLED**

**Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade

**Seedlings up to 6-leaf stage**

Wild tomato

**Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

**Perennials: Top-growth checked**

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle 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.*

*\*\*\*Spring annuals only.*

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

**BROMOX 450 M EMULSIFIABLE HERBICIDE  
+ MCPA**

**SPRAY VOLUME & PRESSURE:** Apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** The crop may be treated from the 2-leaf until the early flag leaf stage.

**APPLICATION RATE:** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha tank-mixed with 275 g active ingredient MCPA per hectare. A maximum of one application per year.

**NOTE:** MCPA-K is preferred for hempnettle although other formulations may be used. Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add BROMOX 450 M Emulsifiable Herbicide.

**WEEDS CONTROLLED**

As listed for BROMOX 450 M Emulsifiable Herbicide alone plus these additional weeds.

**Seedlings up to 4-leaf stage**

Hempnettle\*

**Seedlings up to 8-leaf stage**

Volunteer rapeseed (including Canola)

*\*Hempnettle is unlikely to be controlled beyond the 4-leaf stage. Plants emerging after application, which is often the case on peat- type soils, will not be controlled.*

**CORN**  
**(Field & Sweet)**

**BROMOX 450 M EMULSIFIABLE HERBICIDE**  
**USED ALONE**

**SPRAY VOLUME & PRESSURE:** Apply in 200 – 300 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** Corn should be treated with a broadcast post-emergence application at the recommended rate FROM THE 4 to 6-LEAF STAGE. Damage to corn will result if sprayed beyond the 6-leaf stage.

**APPLICATION RATE:** 1.25 L/ha. A maximum of one application per year.

**NOTE:** Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). Cultivation after application is not recommended. DO NOT ADD OIL OR SURFACTANT. Do not spray corn by aircraft. For hand harvesting of corn (field and sweet), re-entry is not permitted until 15 days after application. As such, a pre-harvest interval (PHI) of 15 days after application is required.

**WEEDS CONTROLLED**

**Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade

**Seedlings up to 6-leaf stage**

Wild tomato

**Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

**Perennials: Top-growth checked**

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle 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.*

*\*\*\*Spring annuals only. \*\*\*\*Spray before plants are 8 cm high.*

CORN (CONTD)

## **BROMOX 450 M EMULSIFIABLE HERBICIDE + ATRAZINE**

**SPRAY VOLUME & PRESSURE:** Apply in 200 – 300 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** Corn should be treated FROM THE 4 to 6-LEAF STAGE. Damage to corn will result if sprayed beyond the 6-leaf stage.

**APPLICATION RATE:** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha tank-mixed with 1.1 – 2.25 kg atrazine active ingredient per hectare. Add atrazine to the spray tank first, mix well, then add BROMOX 450. A maximum of one application per year.

**NOTE:** Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). Cultivation after application is not recommended. **DO NOT ADD OIL OR SURFACTANT, OR USE ATRAZINE FORMULATIONS CONTAINING OIL.** Refer to the atrazine label for instructions, precautions and limitations, especially on crop restrictions the following year. **DO NOT SPRAY CORN BY AIRCRAFT.**

### **WEEDS CONTROLLED**

As listed for BROMOX 450 M Emulsifiable Herbicide used alone *plus* weeds as indicated on the atrazine label.

**FALL RYE**  
**(not underseeded to legumes)**

**BROMOX 450 M EMULSIFIABLE HERBICIDE**  
**USED ALONE**

**SPRAY VOLUME & PRESSURE:** Apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** Fall rye may be treated from the time growth commences to the early flag leaf stage in the spring.

**APPLICATION RATE:** 1.25 L/ha. A maximum of one application per year.

**WEEDS CONTROLLED**

**Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade

**Seedlings up to 6-leaf stage**

Wild tomato

**Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

**Perennials: Top-growth checked**

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle 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.*

*\*\*\*Spring annuals only.*

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

**FLAX**  
**(including low linolenic varieties)**

**BROMOX 450 M EMULSIFIABLE HERBICIDE**  
**USED ALONE**

**SPRAY VOLUME & PRESSURE:** Apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** Flax, may be treated from the time it is 5 cm high up to the early flower bud stage but for *best results apply BROMOX 450 M Emulsifiable Herbicide when flax, is 5 to 10 cm high.* Some leaf burn and check to growth may follow spraying.

Observe a minimum interval to harvest of 60 days after application of BROMOX 450 M Emulsifiable Herbicide.

**Spraying in the evening may reduce risk of flax injury.**

**WARNING:** Do not spray unthrifty crops or when plants are under stress. Do not spray in periods of hot, humid weather. Do not spray flax by aircraft.

**APPLICATION RATE:** 1.25 L/ha. A maximum of one application per year.

**WEEDS CONTROLLED**

**Due to flax's less competitive nature, weeds should be sprayed in as early a leaf stage as possible, up to the recommended leaf stage.**

**Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade

**Seedlings up to 6-leaf stage**

Wild tomato

**Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

**Perennials: Top-growth checked**

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle 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. \*\*\*Spring annuals only. \*\*\*\*Spray before plants are 8 cm high.*

FLAX (CONTD)

**(FLAX)**  
**(including low linolenic acid varieties)**

**BROMOX 450 M EMULSIFIABLE HERBICIDE**  
**+ SELECT\* EMULSIFIABLE CONCENTRATE POST-EMERGENCE**  
**HERBICIDE**

\*SELECT and AMIGO are registered trademarks of Tomen Corporation.

Follow all precautions, limitations and timing recommendations on the SELECT label.

**SPRAY VOLUME & PRESSURE:** Apply in 55 – 110 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** Flax may be treated from 5 cm high up to the early bud stage. For best results, apply this tank-mix when flax is 5-10 cm high and weeds are in the seedling stage. Leaf burn and check to crop growth may follow spraying. When using this tank-mix, it is important that application be made at the recommended stage of weed growth, particularly where smartweed is present. If broadleaf weeds and grasses are not within the recommended stage at the same time, then separate applications should be made.

**WARNING:** Do not spray unthrifty crops or when flax is under stress due to drought or excess soil moisture. Do not spray in hot, humid weather conditions. Do not spray flax by aircraft. This treatment may cause leaf burn, retarded growth and delayed maturity of the crop.

**APPLICATION RATE:** BROMOX 450 M Emulsifiable Herbicide at 1.25 L/ha tank-mixed with 0.19 L/ha SELECT. AMIGO adjuvant must be added as per the SELECT label directions. Add BROMOX 450 M Emulsifiable Herbicide to the spray tank half filled with water, agitate, add SELECT, continue agitation, add AMIGO and remaining amount of water, continue to agitate. A maximum of one application per year.

**WEEDS CONTROLLED**

As listed for BROMOX 450 M Emulsifiable Herbicide alone on flax *plus* these additional weeds:

Wild oats  
Barnyard grass  
Volunteer barley  
Volunteer oats

Yellow & green foxtail  
Volunteer wheat  
Volunteer corn



**CANARY SEED (*Phalaris canariensis*)**  
**(for seed production)**

**BROMOX 450 M EMULSIFIABLE HERBICIDE**  
**USED ALONE**

**SPRAY VOLUME & PRESSURE:** Apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** The crop may be treated from the 3 to 5-leaf stage.

**APPLICATION RATE:** 1.25 L/ha. A maximum of one application per year.

**WEEDS CONTROLLED**

**Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade

**Seedlings up to 6-leaf stage**

Wild tomato

**Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

**Perennials: Top-growth checked**

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle 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.*

*\*\*\*Spring annuals only.*

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

## **SEEDLING GRASSES** **(not underseeded to legumes)**

**NOTE:** Grasses grown for seed production in the year of establishment only.

**CROPS:** Brome grass, Crested wheat grass, Intermediate wheat grass, Slender wheat grass, Tall wheat grass, Russian wild rye, Timothy, Orchard grass, Creeping red fescue, Meadow fescue, Meadow foxtail, Seedling tall fescue, Meadow brome grass, Streambank wheatgrass, and Reed canary grass.

**CAUTION:** Do not graze or harvest for green feed until 56 days after treatment.

### **BROMOX 450 M EMULSIFIABLE HERBICIDE** **USED ALONE**

**SPRAY VOLUME & PRESSURE:** Apply in 150 litres of water per hectare at a pressure of 275 kPa.

**TIMING:** Seedling grasses may be treated from the 2 to 4-leaf stage. Make only one application per season.

**APPLICATION RATE:** 1.25 L/ha

#### **WEEDS CONTROLLED**

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

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade

##### **Seedlings up to 6-leaf stage**

Wild tomato

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

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

##### **Perennials: Top-growth checked**

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle 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. \*\*\*Spring annuals only. \*\*\*\*Spray before plants are 8 cm high.*

**ESTABLISHED GRASSES  
(not underseeded to legumes)**

**BROMOX 450 M EMULSIFIABLE HERBICIDE  
USED ALONE**

**CROP:** Established Timothy Grown for Seed

**SPRAY VOLUME:** Apply in 150 liters of water per hectare.

**TIMING:** Apply prior to shot blade in the seed production year. Make only one application per season.

**RATE:** 1.25 L/ha

**WEEDS CONTROLLED**

As listed for BROMOX 450 M Emulsifiable Herbicide used alone in seedling grasses.

# **BROMOX 450 M**

**EMULSIFIABLE HERBICIDE**



<b>GROUP</b>	<b>4 6</b>	<b>HERBICIDE</b>
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Contains Bromoxynil and MCPA

for use in  
WHEAT (spring, durum & winter), BARLEY  
OATS, FLAX (including low linolenic varieties), CORN (field, sweet), FALL RYE  
CANARY SEED (for seed production)  
SEEDLING GRASSES, ESTABLISHED GRASSES

AGRICULTURAL

GUARANTEE:

Bromoxynil (present as esters) .....225 g/L  
MCPA equivalent (present as 2-ethylhexyl ester) .....225 g a.e./L

REGISTRATION NO. 17145  
PEST CONTROL PRODUCTS ACT



WARNING

POISON

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

Bayer CropScience  
Suite 100, 3131 114<sup>th</sup> Avenue SE  
Calgary, Alberta T2Z 3X2  
Product Information: 1-888-283-6847

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

NET CONTENTS: 4 L – 200 L

## **PRECAUTIONS:**

**KEEP OUT OF REACH OF CHILDREN.**

Avoid contact with skin, eyes and clothing.

Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. Wash concentrate from skin or eyes immediately.

Avoid working in spray mist.

After use wash hands and other exposed skin.

For both ground and aerial application, wear a long-sleeved shirt, long pants, socks, shoes and chemical-resistant nitrile gloves (e.g. Edmont Sol-Vex #37-155/#37-145 or Pioneer A-15) which are in good condition when mixing/loading, spraying, and during clean up and repair. In addition, wear coveralls over a long-sleeved shirt and long pants, and a chemical-resistant apron, during mixing/loading activities. Aerial applicators and applicators using a closed cab are not required to wear chemical-resistant gloves.

Do NOT apply this product in a way that 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 the application.

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 the product's concentrate. DO NOT reuse them.

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

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.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at [www.croplife.ca](http://www.croplife.ca)

**PRE-HARVEST GRAZING INTERVALS:** Do not use treated crops for grazing of livestock or green feed until 30 days after application of BROMOX 450 M Emulsifiable Herbicide. Do not cut treated crops for forage until 30 days after application of BROMOX 450 M Emulsifiable Herbicide. Withdraw meat animals from treated fields at least 3 days before slaughter.

## **ENVIRONMENTAL HAZARDS:**

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. This product is also toxic to non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment. Avoid contamination of ponds, streams, rivers and other water sources.

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

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body.

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

### **FIRST AID:**

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

### **TOXICOLOGICAL INFORMATION:**

Medical Personnel should contact Bayer's Medical Information Services, Toll-Free: 1-800-334-7577. This product contains an aromatic hydrocarbon solvent. Vomiting may cause aspiration pneumonia. High concentrations of MCPA may cause severe irritation to the eyes. Symptoms of overexposure to MCPA could include slurred speech, twitching, jerking and spasms, drooling, low blood pressure and unconsciousness. Treat symptomatically.

### **STORAGE CONDITIONS:**

This BROMOX 450 Emulsifiable Herbicide formulation will solidify at temperatures below -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.

### **DISPOSAL:**

#### **RECYCLABLE CONTAINER 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 requirements.

#### **RETURNABLE CONTAINER DISPOSAL:**

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

**REFILLABLE CONTAINER DISPOSAL:**

For disposal, this empty 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.

**DISPOSAL OF UNUSED, UNWANTED PRODUCT:**

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 cleanup 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. The user assumes the risk to persons or property that arises from any such use of this product.

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