

(Container)



# MCPA LV 500 Herbicide

GROUP	4	HERBICIDE
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For air or ground application to control most broadleaved weeds in wheat, oats, barley, rye, flax (do not use on low linolenic acid varieties), asparagus, pastures and non-cropland.

AGRICULTURAL

READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

GUARANTEE: MCPA, present as 2-ethylhexyl ester                      500 g a.e./L  
emulsifiable concentrate

REGISTRATION NO. 20329 PEST CONTROL PRODUCTS ACT

**WARNING**  **POISON**

**HARMFUL IF SWALLOWED  
MAY CAUSE EYE AND SKIN IRRITATION**

NET CONTENTS: 13.44 L

**Corteva Agriscience Canada Company** 2450, 215 – 2nd Street SW  
Calgary, Alberta  
T2P 1M4  
1-800-667-3852

<sup>TM</sup>Trademark of Corteva Agriscience and its affiliated companies.

## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN**

**Harmful if swallowed. May cause eye and skin irritation.** Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Destroy contaminated shoes and leather articles.

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.

## **PROTECTIVE CLOTHING AND EQUIPMENT**

### **Ground Application Equipment**

- Mixers/loaders and applicators must wear a long-sleeved shirt, long pants and coveralls, socks, shoes and chemical-resistant gloves.
- Aerial applicators and applicators using a closed cab are not required to wear chemical-resistant gloves.
- Mixers/loaders must also wear chemical worker's goggles.

### **Aerial Application Equipment**

- Applicators must wear long pants and coveralls and a long-sleeved shirt.
- Mixers/loaders and applicators must wear long pants, a long-sleeved shirt and chemical-resistant gloves during mixing, loading, clean-up and repair activities.
- Aircraft must be closed cab.
- Mixer/loader and applicator must be different individuals.
- No human flaggers are permitted.
- Mixers/loaders must also wear chemical worker's goggles.

### **Spot or Broadcast Application Equipment in Non-Cropland**

- Applicators must wear a long-sleeved shirt, long pants, and chemical-resistant gloves (except for aerial applicators during application)

Refer to Directions for Use section of the Booklet for any additional requirements.

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 web site at [www.croplife.ca](http://www.croplife.ca).

## **PHYSICAL OR CHEMICAL HAZARDS**

**COMBUSTIBLE.** Do not use or store near heat or open flame. Do not weld or cut container.

## **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. 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.

**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 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.

### **TOXICOLOGICAL INFORMATION**

If burn is present, treat as any thermal burn after decontamination. No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient. If swallowed, aspiration may cause chemical pneumonia. When considering emptying the stomach, the danger of chemical pneumonia must be weighed against toxicity. If lavage is performed, a cuffed endotracheal tube should be considered. 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. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

### **AGRICULTURAL CHEMICAL**

Do not ship or store with food, feeds, drugs or clothing.

### **ENVIRONMENTAL HAZARDS**

This product contains a petroleum distillate. It is toxic to aquatic organisms and non-target terrestrial plants. Keep out of lakes, ponds and streams. Do not contaminate water by cleaning of equipment or disposal of wastes nor through application. Observe buffer zones specified under DIRECTIONS FOR USE.

#### **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.

### **STORAGE AND USE**

This product must be stored away from fertilizers, seeds, insecticides, fungicides or other herbicides intended for use on MCPA sensitive crops. When the container is empty triple rinse and add the rinse water to the spray tank. Care must be taken during application to avoid contaminating irrigation ditches or domestic water supplies. Avoid using sprayers which contained MCPA, to apply other pesticides to sensitive crops.

### **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.

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

**(Booklet)**



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NET CONTENTS: 6.72 L, 10 L, 13.44 L, 205 L

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- Aerial applicators and applicators using a closed cab are not required to wear chemical-resistant gloves.
- Mixers/loaders must also wear chemical worker's goggles.

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- Applicators must wear a long-sleeved shirt, long pants, and chemical-resistant gloves (except for aerial applicators during application)

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### **ENVIRONMENTAL HAZARDS**

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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.

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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.

### **STORAGE AND USE**

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### **DISPOSAL**

#### **Recyclable Containers:**

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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 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 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.

**USE PRECAUTIONS**

**WARNING**

**For Aerial Application**

Do not spray when winds exceed 16 kmph. Do not spray in dead calm near sensitive plants. The "cloud" of suspended droplets may drift onto sensitive plants when the wind comes up. Spray only when wind is blowing away from a sensitive crop, shelterbelt or garden.

**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.

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.

The field crew and the mixer/loaders must wear long-sleeved shirt, long pants and coveralls, chemical resistant gloves 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.

### **Tank Mixtures**

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Corteva Agriscience Canada Company at 1-800-667-3852 or [www.corteva.ca](http://www.corteva.ca) for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Corteva Agriscience Canada Company.

### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-667-3852 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 30 litres per hectare.

### **Sensitive Plants**

Vegetables, flowers, grapes, fruit trees and other desirable plants are sensitive to MCPA even in minute quantities. Care should be taken to avoid spraying these types of plants or allowing spray mist to drift onto these plants during both their growing and dormant periods. Coarse sprays are less likely to drift. At higher temperatures, vaporization may cause injury to susceptible plants growing nearby.

This product may cause damage to lawns or pastures if applied before the grass is well established. In addition, most legumes may be damaged or killed.

**NOTE:** Local conditions may affect the use of herbicides. Provincial agricultural authorities issue recommendations to fit local conditions. Be sure that use of this product conforms to all applicable regulations.

If this product is exposed to temperatures below -20°C, it should be warmed to at least 5.0°C and mixed thoroughly before using.

## **DIRECTIONS FOR USE**

### **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) coarse 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) 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.

## **GENERAL INSTRUCTIONS - CROP USE**

### **Grazing Restriction**

- Do not permit lactating dairy animals to graze fields within 7 days after application.
- Do not harvest forage or cut hay within 7 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

### **Restricted Entry Interval (REI)**

- All crops – 12-hour REI

### **Ground Application**

Apply 50 to 200 L of spray solution per hectare depending on the type of application equipment used. Use sufficient water for even distribution. Spray at low pressures (200 to 275 kPa) when the weeds are actively growing.

### **Aerial Application (including fixed and rotary wing aircraft)**

Apply a minimum of 30 L of spray solution per hectare depending on the type of application system being used. Use boom pressures of 235 kPa or less. Avoid placing nozzles where spray will enter wing tip vortices.

### **To Prepare A Spray**

Add half the required amount of water or oil to the spray tank, then add with agitation the required amount of product as shown for the different uses, and finally the balance of the water or oil with continued agitation. Provide agitation to ensure uniformity of spray mixture.

### **Spot Treatment**

For spot treatment of weeds such as thistles using knapsacks, mix 20 ml of product/L of spray solution. Wet all foliage thoroughly.

### **Selective Weed Control in Small Grains**

Do not use on grain interplanted with a legume. Weeds differ in their susceptibility to MCPA LV 500 Herbicide and not all types can be controlled satisfactorily in crops. The amount of product to use will depend upon the susceptibility and whether the crops will tolerate this amount. Where specific rates are recommended for a crop in this Crop Use section, DO NOT exceed those specific rates.

### **Oats**

Oats are more tolerant to MCPA than 2,4-D. Spray when conditions of weeds warrant up to the flag-leaf stage (shot blade). Maximum 1 application per year.

### **Wheat, Barley and Rye**

MCPA LV 500 Herbicide is used for the control of susceptible weeds in wheat, barley and rye. Treatments can be made from the 3-leaf expanded to the early flag-leaf stage. Treatments made between emergence and 3-leaf stage may cause some crop injury, but are less likely to with MCPA LV 500 Herbicide than with 2,4-D esters. Winter wheat and fall rye should be treated in early spring, as soon as weeds appear and when the crop is in full tillering stage to the shot-blade stage. Maximum 1 application per year.

### **Flax (linseed) (Do not use on low linolenic acid varieties)**

Treat flax with MCPA LV 500 Herbicide when flax is 5 cm tall to just before the buds begin to form. When weeds resistant to MCPA are present, use 2,4-D Amine 500 herbicide; however, some crop injury to the flax should be expected. Rates of MCPA LV 500 Herbicide over 1.1 L/ha may cause a delay in maturity which is usually more than offset by increased yield caused by weed control. Maximum 1 application per year. See Table 1 for rates.

### Asparagus

Treat asparagus with MCPA LV 500 Herbicide following a cultivation just before the first spears appear. Use 3.5 L/ha. Treatment may be repeated at the end of the cutting season.

Maximum 2 applications is permitted per season with a minimum retreatment interval of 21 days.

### Established Grasses - Eastern Canada

For the control of yellow rocket and other susceptible winter annual weeds, spray with 2 L of MCPA LV 500 Herbicide/ha. Application should be made in early fall.

### Established Legumes (Alfalfa) and Grasses - Western Canada

To control such susceptible weeds as horsetail, hoary cress, shepherd's purse and other perennials or winter annuals, spray with MCPA LV 500 Herbicide at 1.1 to 2.0 L/ha before growth of legumes and grasses starts in the spring.

### Rangeland and Grass Pasture

To control susceptible weeds use 1.5 to 2.75 L/ha in enough water for coverage.

For established grasses, pastures and rangeland, and established legumes, a maximum of 2 applications per season is permitted, with a minimum retreatment interval of 90 days.

## APPLICATION

**Table 1 - Suggested Amounts of MCPA LV 500 Herbicide for Weed Control in Cereals (Not Underseeded to Legumes) and Flax (Do not use on low linolenic acid varieties)**

Mixed Weedy Growth	Stage of Weed Kind of Weather	Rate L/ha	Hectares Treated/20L
Susceptible weeds such as: burdock, cocklebur, field pennycress, flixweed, kochia, lamb's-quarters, mustard (except dog & green tansy), prickly lettuce, ragweeds, Russian pigweed, shepherd's purse, annual sunflower, vetch, wild radish, field horsetail*, hoary cress*, plantain*	Seedling (2-4 leaves) Growing rapidly	700 mL	29
	Weeds in bud Dry, cool weather Heavy infestation	1.1	18
Hard-to-kill weeds such as: biennial wormwood, bluebur, dog mustard, field peppergrass, hairy galinsoga, hemp nettle, goatsbeard, oakleaf goosefoot, dandelion, redroot pigweed, smartweed, annual sow-thistle, sweet clover, tartary buckwheat, tumbleweed, blue lettuce*, Canada thistle*, burdocks*, field bindweed*, gumweed*, hedge bindweed*, lady's thumb*, perennial sow-thistle*, tansy*	Seedling (2-4 leaves) Growing rapidly	1.25 <sup>□</sup>	16
	Weeds in bud Dry or cool weather Heavy infestation	1.75 <sup>□</sup>	12

\*Top growth control only.

□The higher rates may cause deformities and delayed maturity which will be offset by a higher relative yield from a less weedy crop.

## GENERAL INSTRUCTIONS - NON-CROP USE

For broadcast treatment, a maximum of 2 applications per year is permitted with a minimum treatment interval of 21 days.

For spot treatment using high-pressure handwands, do not exceed to 9 kg a.i. per day, per individual applicator.

For application using handheld equipment, use a maximum concentration of 20 mL of product/L of spray solution.

### Ground Application

Apply 100 to 1000 L of spray solution per hectare depending on the type of application system being used. Use sufficient water to ensure uniform coverage.

### Aerial Application (including fixed and rotary wing aircraft).

Apply a minimum of 30 L of spray solution per hectare depending on the type of application system being used. Use boom pressures of 235 kPa or less. Avoid placing nozzles where spray will enter wing tip vortices.

### Roadside and General Weed Control

For taller weed growth such as in vacant lots, on roadsides and along fence rows, sufficient spray solution should be used to wet all foliage thoroughly. Use MCPA LV 500 Herbicide at the rate of 3.36 L per hectare. Deep-rooted perennial weeds such as bindweed and Canada thistle may require repeated applications as new growth appears.

## BUFFER ZONES TO PROTECT SENSITIVE TERRESTRIAL AND AQUATIC HABITATS

Buffer zones are not required for applications with handheld or backpack equipment 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 shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

**Buffer Zone Table**

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Cereals, flax, grasses, roadsides, vacant lots and fencerows, legumes and asparagus	1	1	1	1	4

Aerial	Terrestrial Food and Feed Crops						
	Asparagus	Fixed	5	1	1	1	85
		Rotary wing	5	1	1	1	70
	Cereals, flax	Fixed wing	1	0	1	0	60
		Rotary wing	1	0	1	0	50
	Grasses	Fixed wing	1	0	1	1	75
		Rotary wing	1	0	1	1	60
	Legumes (alfalfa)	Fixed wing	1	1	0	0	25
		Rotary wing	1	1	0	0	25
	Pastures, rangeland	Fixed wing	5	1	1	1	100
		Rotary wing	4	1	1	1	80
	Non-Crop Uses:						
	Roadsides, vacant lots and fencerows	Fixed wing	30	1	20	1	200
		Rotary wing	20	1	10	1	100

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

**NOTE:** Applicators may recalculate a site-specific buffer zone by combining information on current weather conditions and spray configuration for the following applications: all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: 'DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) [Fine or Medium or Coarse] classification.' To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site.

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, MCPA LV 500 Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to MCPA LV 500 Herbicide and other Group 4 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 MCPA LV 500 Herbicide or other Group 4 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 Corteva Agriscience Canada Company at 1-800-667-3852 or at [www.corteva.ca](http://www.corteva.ca).

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