

(sleeve)

GROUP	4	HERBICIDES
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A H MARKS

MCPP-p 600
Liquid Herbicide

CONTAINS MECOPROP-P SALT SOLUTION

For turf, golf greens, fairways, wheat, oats and barley

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

ACTIVE INGREDIENT: Mecoprop-P (present as dimethylamine salt).... 600g a.e./L
Warning, contains the allergen soy

REGISTRATION NO. 28563 PEST CONTROL PRODUCTS ACT

DANGER – CORROSIVE TO EYES



WARNING

POISON

NET CONTENTS: (1 - 1000 litres)

Nufarm Agriculture Inc.
5101, 333 - 96th Ave NE
Calgary, Alberta T3K 0S3
1-800-868-5444

24 Hour Emergency Response
Number
1-800-424-9300

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Harmful or fatal if swallowed. CORROSIVE to the eyes. DO NOT get in eyes. May irritate skin. Avoid contact with skin. Wash concentrate from

skin or eyes immediately. Harmful or fatal if swallowed. Do not inhale fumes. Avoid breathing spray mist. After use, wash hands and other exposed skin. Remove and wash contaminated clothing before reuse. Avoid spray drift. Avoid contamination of ponds, streams, rivers and other water sources. Store the container tightly closed and away from seeds, feeds, fertilizer, plants and foodstuffs.

Handling the concentrate (mixing and loading): Wear long-sleeved shirt, long pants, chemical resistant gloves, socks and shoes, and protective eye wear (face shield or safety glasses). Rinse gloves before removal. Coveralls or a chemical-resistant apron should also be worn when open pouring from containers greater than 5 L.

Handling the dilute spray solution (during application or repairing or cleaning equipment): Wear long-sleeved shirt, long pants, chemical resistant gloves, socks and shoes. Rinse gloves before removal. Gloves are not required during application when applicator is in an enclosed tractor or in an enclosed airplane cockpit.

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.

ENVIRONMENTAL HAZARDS:

Toxic to small wild mammals, birds, aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

FIRST AID:

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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.

GENERAL: Never give anything by mouth to an unconscious person. Remove individual to a safe and uncontaminated area. Seek medical attention immediately if toxicity or irritation persists or is severe. Take the container label or product name and Pest Control Product Registration

Number with you, when seeking medical attention.

TOXICOLOGICAL INFORMATION:

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient. Treat symptomatically.

STORAGE:

Store at temperatures above 0°C. SHAKE WELL BEFORE USING.

DO NOT APPLY BY AIR

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

(booklet)

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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.

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.

Buffer zones:

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held 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 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:				
		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*	Wheat, oats and barley	1	0	1	1	5
	Golf courses, established turf or lawn	1	0	2	1	10

*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%.

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

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.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, A. H. Marks MCPP-p 600 Liquid Herbicide is a group 4 herbicide. Any weed population may contain or develop plants naturally resistant to A. H. Marks MCPP-p 600 Liquid 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 A. H. Marks MCPP-p 600 Liquid 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 the Canadian Agent: Nufarm Agriculture Inc. company representatives at 403-253-8471.

DO NOT APPLY BY AIR.

USE PRECAUTIONS:

Do not spray on crops which can be damaged, such as peas, beans, sugar beets, tomatoes, clovers, alfalfa, rape (Canola), sunflowers, potatoes, turnips (rutabagas), vegetables, flowers, trees or shrubs.

Caution: Do not graze the treated crops or cut for hay: sufficient data are not available to support such use.

Weather: Apply in warm weather under good growing conditions. Avoid spraying in very hot weather or in drought conditions.

Mixing: To ensure even mixing, half fill the sprayer tank with clean water, add the required amount of A. H. Marks MCPP-p 600 Liquid Herbicide and stir thoroughly. Add the remainder of the water and mix before spraying.

Spray Volume: Equip the spraying machine with nozzle tips to apply 300 – 400 litres of water per hectare using a pressure not exceeding 275 kPa. Before use, calibrate the machine to ensure that the correct application rate is obtained. On small areas, A. H. Marks MCPP-p 600 Liquid Herbicide may be applied at the recommended rates in 10 litres of water per 100 m². It is recommended that the grass is not cut for 3 to 4 days before or after spraying. Do not water for 24 hours after treatment. Treatment may be repeated if necessary. A. H. Marks MCPP-p 600 Liquid Herbicide may act more slowly than some weed killers and up to three weeks may elapse before effect on the weeds becomes apparent.

WEED CONTROL IN TURF, GOLF GREENS AND FAIRWAYS:

A. H. Marks MCPP-p 600 Liquid Herbicide may be used on Red fescue, Blue grasses, Bent grasses and Rye grasses when applied according to the directions below. To reduce potential drift hazard in non-crop land, LO-DRIFT® may be added. Follow all directions on the LO-DRIFT label for the correct mixing sequence.

Maximum application frequency to turf: For good turf/lawn management, normally two applications per year per treatment site are adequate. This does not include spot treatments.

APPLICATION RATES:

Seedling grasses: 15 mL per 100 m². 1.4 litres per hectare (should be at least 2.5 cm high at spraying).

Established turf: 22.5 mL per 100 m². 2.1 litres per hectare.

WEEDS CONTROLLED:

Susceptible as: Seedlings: Common chickweed, Plantain, Mouse-eared chickweed, Clover

Use 15 mL per 100 m². 1.4 litres per hectare.

Established Plants: Use 22.5 mL per 100 m². 2.1 litres per hectare.

Spray when the plants are growing vigorously.

Moderately Susceptible: Buttercup, Canada thistle, Creeping Charlie, Corn spurry, Black medick, Dandelion, Stitchwort

Use 22.5 mL per 100 m². 2.1 litres per hectare. Spray before flowering in early June or September when plants are young and growing fast.

Where dandelion is present, add 2,4-D to this product.

WEED CONTROL IN WHEAT, OATS AND BARLEY:

A. H. Marks MCPP-p 600 Liquid Herbicide should be applied under good growing conditions from the time the crop is at the 3-leaf stage until the early flag leaf (shot-blade) stage: grain is about 10-15 cm high. **DO NOT SPRAY ON GRAIN UNDERSEEDED WITH LEGUMES.**

RATES OF APPLICATION ON CEREALS FOR CONTROL OF:

Canada thistle (top growth), Corn spurry, Chickweed, Plantain, Cleavers, Stitchwort, Clovers (volunteer)

Stage of weed growth	Rate	Area	Volume of water
Seedlings	1.4 L	1 hectare	200-300 L
Mature plants	1.75 L	1 hectare	200-300 L

ROTATIONAL CROP RESTRICTION

A plant-back interval of 30 days is required for all crops other than those listed on this label.

CLEANING OF SPRAYER:

Do not use weed sprayers for applying any other chemical on crops which may be damaged (see above) without thorough cleaning. To clean sprayer, rinse all parts including pump, hoses and nozzles several times with water. Then fill complete unit with a solution of water and either detergent or household ammonia (1 part to 100 parts of water) and let stand for 24 hours. Rinse several times with clean water.

Even after such cleaning, use of the sprayer may cause damage to susceptible crops, particularly if esters have been used. It is advisable to use the sprayer only on recommended crops. Do not contaminate irrigation water when cleaning sprayer.

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