

22-JUL-2002. Notification of Registrant Name Change received. Please see below for new name.

23-AUG-1999

GUARDSMAN(R)

MCPA AMINE 500

Liquid Herbicide

10 Litres

AGRICULTURAL:

Contains MCPA

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

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

GUARANTEE: MCPA equivalent 500 g/L
(present as amine salts of MCPA)

REGISTRATION NO. 21429
PEST CONTROL PRODUCTS ACT

CAUTION

CAUTION

POISON

Notification Change

~~Van Waters & Rogers Ltd.~~ **Univar Canada Ltd.**

~~A ROYAL PAKHOED COMPANY~~

9800 Van Horne Way
Richmond, BC
V6X 1W5

GUARDSMAN(R) MCPA AMINE 500 - Herbicide

PRECAUTIONS

Causes irritation of skin and eyes. Do not get in eyes. Avoid contact with skin and clothing. Wash skin with soap and plenty of water. Remove and wash contaminated clothing and shoes before

reuse.

FIRST AID

If swallowed: Induce vomiting. Get medical attention or contact a poison control centre. In case of contact, flush eyes with plenty of water for at least 15 minutes and get medical attention or contact a poison control centre.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

For further information consult the Material Safety Data Sheet.

AGRICULTURAL CHEMICAL

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

DISPOSAL

1. Rinse the emptied container thoroughly and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For more information on the disposal of unused, unwanted product and the cleanup of spills, contact the provincial regulatory agency or the manufacturer.

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

NOTICE TO BUYER: Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

Guardsman MCPA Amine 500 Liquid Herbicide

Contains MCPA. For ground or aerial application to control most broadleaf weeds in wheat, oats, barley, rye, flax (do not use on low linolenic acid varieties), asparagus, peas, and non-cropland.

Van Waters & Rogers Ltd.
9800 Van Horne Way
Richmond, B.C.V6X 1W5

REGISTRATION NO. 21429 PEST CONTROL PRODUCTS ACT

AGRICULTURAL

READ THE LABEL BEFORE USING

KEEP OUT OR REACH OF CHILDREN

GUARANTEE: MCPA equivalent 500 g/L
(present as amine salts of MCPA)

CAUTION

CAUTION POISON

NET CONTENTS: 10 litres

PRECAUTIONS: Causes Irritation of Skin and Eyes "Do Not Get in Eyes" Avoid Contact With Skin and Clothing "Wash skin with soap and plenty of water" Remove and wash contaminated clothing and shoes before re-use.

FIRST AID: If swallowed: Induce vomiting. GET MEDICAL ATTENTION or contact a poison control centre. In case of contact, flush eyes with plenty of water for at least 15 minutes and get medical attention or contact a poison control centre.

TOXICOLOGICAL INFORMATION: Treat symptomatically. For further information consult the Material Safety Data Sheet.

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

STORAGE: This product must be stored away from fertilizers, seeds, insecticides, fungicides or other herbicides intended for use on MCPA sensitive crops.

USE: 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:

1. Rinse the emptied container thoroughly and add the rinsing to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product and the cleanup of spills contact the provincial regulatory agency or the manufacturer.

USE PRECAUTIONS

WARNING

FOR AERIAL APPLICATION: Do not spray when winds exceed 8 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 garden.

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 period 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 0°C, it should be warmed to at least 5°C and mixed thoroughly before using.

DIRECTIONS FOR USE:

GENERAL INSTRUCTIONS - CROP USE.

GRAZING RESTRICTION: Allow 7 days between application of product and grazing/cutting for hay.

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 pressure of 235 kPa or less. Avoid placing nozzles where spray will enter wing tip vortices.

TO PREPARE A SPRAY: Add half the 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 knapsack applications for spot treatment of weeds such as thistles, mix 200 mL of product in 10 L of water. 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 AMINE 500 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. See chart.

OATS: Oats are more tolerant to MCPA AMINE 500 than 2,4-D. Spray when conditions of weeds warrant up to the flag-leaf stage (shot blade).

WHEAT, BARLEY, RYE: MCPA AMINE 500 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, and again from the milk stage to full maturity. Treatments made between emergence and 3-leaf stage may cause some crop injury, but are less likely to with MCPA AMINE 500 than with 2,4-D Amines. 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.

FLAX (LINSEED; do not use on low linolenic acid varieties): Treat flax with MCPA AMINE 500 when flax is 5 cm tall to just before the buds begin to form. When control of MCPA resistant weeds is required, use 2,4-D AMINE; however, some crop injury to the flax should be expected, rates of MCPA AMINE 500 over 1.1 L/ha may cause a delay in maturity which is usually more than off-set by increased yeild caused by weed control.

APPLICATION:

Suggested Amounts of MCPA AMINE 500 for Weed Control in Cereals
and Flax (not underseeded to legumes)

MIXED WEEDY GROWTH	STAGE OF WEED KIND OF WEATHER	RATE L/HA	HECTARES TREATED/ 20L
Susceptible weeds such as: burdock, cocklebur, field pennycress, fixweed, kochia, lamb's quarters, mustard (except dog & green tansy), prickley lettuce, ragweeds, Russian pigweed, shepherds purse, annual sunflower, vetch, wild radish, field horsetail*, hoary cress*, plantain*.	Seedling(2-4 leaves) Growing rapidly	700 mL	29
	Weeds in bud. Dry or 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*, docks*, field bindweed*, gumweed*, hedge bindweed*, lady's thumb*, perennial sow-thistle*, tansy*.	Seedling(2-4 leaves) Growing rapidly	1.25+	16
	Weeds in bud Dry or cool weather Heavy infestation	1.75+	11

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

* Top growth control only.

SELECTIVE WEED CONTROL IN SMALL GRAINS UNDERSEEDED WITH A LEGUME: MCPA AMINE 500 may be used on grain interplanted with alfalfa (except Flemish types such as alfa or dupuits alfalfa), red clover, ladino clover and alsike. Do not use on grain interplanted with sweet clover or birdsfoot trefoil. Spray with no more than 350 mL/ha on alfalfa and not more than 700 mL/ha on red clover, ladino and alsike when legumes are at about the 2nd

true leaf stage.

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

PEAS: Field and canning peas should be treated with MCPA AMINE 500 at 700 mL/ha when 10-18 cm tall, using not less than 170 L/ha of water.

ESTABLISHED GRASSES - EASTERN CANADA: For the control of yellow rocket and other susceptible winter annual weeds, spray with 2.1 L/ha of MCPA AMINE 500. Application should be made in early fall.

ESTABLISHED ALFALFA AND GRASSES - WESTERN CANADA: To control such susceptible weeds as horsetail, hoary cress and shepherd's purse and other perennials or winter annuals, spray with MCPA AMINE 500 at 1.1 to 2.0 L/ha before growth of legumes and grasses starts in the spring.

RANGELAND AND GRASS PASTURE AND TURF: To control susceptible weeds use 2.75 to 4.75 L/ha in not less than 450 L of water.

WARNING: Do not use on lawns or creeping grasses such as bent, except for spot spraying or on freshly seeded turf until grass has become well established. Most legumes are usually damaged or killed.

GENERAL INSTRUCTIONS - NONCROP USE

GROUND APPLICATION: Apply 50 to 1000 L of spray solution per hectare depending on the type of application system being used. Use sufficient water to ensure uniform coverage.

USE PRECAUTIONS FOR AERIAL APPLICATIONS (to cereals crops, pasture, rangeland and non-crop land)

Do not spray when winds exceed 8 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.

- Avoid direct applications to any body of water. Do not contaminate water through spray drift or by cleaning of equipment or disposal of wastes.
- Fixed and rotary-winged aerial applications to field crops

should be made in a minimum of 30 L/ha total spray mixture. Use boom pressure of 235 kPa or less. Avoid placing nozzles where spray will enter wing tip vortices.

- Do not apply this product directly to, or otherwise permit it to come into direct contact with desirable crops, other desirable broadleaved plants or non-target species and do not permit spray mists to drift onto them.
- Coarse sprays are less likely to drift, use only nozzles or nozzle configurations which minimize the production of fine spray drops. Do not angle nozzles forward into the air-stream and do not increase spray volume by increasing nozzle pressure. When spraying, avoid combination of pressure and nozzle type that will result in fine particles (mist) which are more likely to drift. A spray thickening agent or drift retardant may be used with this product to aid in reducing spray drift.
- Do not use human flaggers.
- Avoid Spray Drift: Apply only when there is little or no hazard from spray drift. Small quantities of the spray, which may not be visible, may seriously injure susceptible crops and damage sensitive non-target habitat. A method must be used to detect air movement, lapse conditions or temperature inversions (stable air) such as the use of balloons or a continuous smoke column at or near the spray site or a smoke generator on the spray equipment. If the smoke develops into layers or indicates a potential for hazardous spray drift, do not spray.
- Buffer Zones: Appropriate buffer zones should be established between treatment areas and aquatic systems and treatment areas and significant wildlife habitat.

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 AMINE 500 at the rate of 2.5 to 5 L per hectare. Deep-rooted perennial weeds such as bindweed and Canada thistle may require repeated applications as new growth appears.

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