

15-APR-1997

GUARDSMAN®

MCPA LV-500

EMULSIFIABLE WEED KILLER

10 LITRES

AGRICULTURAL:

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

WARNING

WARNING

POISON

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN.

GUARANTEE: MCPA equivalent 500 g/L
(present as 2-ethyl hexyl ester of MCPA)

REGISTRATION NO. 21434
PEST CONTROL PRODUCTS ACT

Notification Change

~~VAN WATERS & ROGERS LTD.~~ **Univar Canada Ltd.**
9800 VAN HORNE WAY
RICHMOND, B.C.,
V6X 1W5

GUARDSMAN® MCPA LV-500-Emulsifiable Weed Killer

PRECAUTIONS

Harmful if swallowed. May cause eye and skin irritation. Do not get in eyes, on skin or on clothing. Wear impervious gloves, coveralls and chemical worker's goggles during the mixing and handling of this product. Wash thoroughly after handling. Wash contaminated clothing before reuse. Destroy contaminated shoes and leather articles.

PHYSICAL OR CHEMICAL HAZARDS

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

FIRST AID

IF SWALLOWED: Do not induce vomiting. Contains petroleum hydrocarbon. Call a physician or contact a poison control centre (and/or transport to emergency facility immediately).

IF IN EYES: Flush with flowing water immediately and continuously for 15 minutes. Get medical attention or contact a poison control centre.

IF ON SKIN: Wash off in flowing water or shower. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.

TOXICOLOGICAL INFORMATION: If burn is present, treat as any thermal burn after decontamination. No specific antidote. Supportive care. Treatment 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.

For further information consult the Material Safety Data Sheet.

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.

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. Disposal of the container in accordance with provincial requirements.

5. For information on the disposal or unused, unwanted product and the cleanup of spills contact the Provincial Regulatory Agency or the Manufacturer.

GUARDSMAN® MCPA LV 500 Emulsifiable Weed Killer

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.

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

REGISTRATION NO. 21434
PEST CONTROL PRODUCTS ACT

AGRICULTURAL

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

GUARANTEE:
MCPA equivalent 500 g/L
(Present as 2-ethyl hexyl ester of MCPA)

WARNING
WARNING POISON

NET CONTENTS: 10 litres

PRECAUTIONS:

HARMFUL IF SWALLOWED. May cause eye and skin irritation. Do not get in eyes, on skin or on clothing. Wear impervious gloves, coveralls and chemical worker's goggles during the mixing and handling of this product. Wash thoroughly after handling. Wash contaminated clothing before reuse. Destroy contaminated shoes and leather articles.

PHYSICAL OR CHEMICAL HAZARDS: Combustible. Do not use or store

near heat or open flame. Do not weld or cut container.

FIRST AID:

IF IN EYES: Flush with flowing water immediately and continuously for 15 minutes. Get medical attention or contact a poison control centre.

IF SWALLOWED: Do not induce vomiting. Contains petroleum hydrocarbon. Call a physician or contact a poison control centre (and/or transport to emergency facility immediately).

IF ON SKIN: Wash off in flowing water or shower. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.

TOXICOLOGICAL INFORMATION: If burn is present, treat as any thermal burn after decontamination. No specific antidote. Supportive care. Treatment 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.

For further information consult the MATERIAL SAFETY DATA SHEET.

AGRICULTURAL CHEMICAL

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

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Keep out of lakes, ponds, and streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

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 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. Disposal of the container in accordance with provincial requirements.
 5. For information on the disposal or 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 or 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 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°C and mixed thoroughly before using.

DIRECTIONS FOR USE

GENERAL INSTRUCTIONS - CROP USE

Grazing Restriction: Allow 7 days between applications 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 (200-275 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 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 LV 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 than 2,4-D. Spray when conditions of weeds warrant up to the flag-leaf stage (shot blade).

Wheat, Barley, Rye: MCPA LV 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. Treatments made between emergence and 3-leaf stage may cause some crop injury, but are less likely to with MCPA LV 500 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.

Flax (linseed; do not use on low linolenic acid varieties): Treat flax with MCPA LV 500 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 over 1.1 L/ha may cause a delay in maturity which is usually more than offset by increased yield caused by weed control.

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

Established Grasses - Eastern Canada: For the control of yellow

rocket and other susceptible winter annual weeds, spray with 2 L of MCPA LV 500/ha. 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 LV 500 at 1.1 to 2.0 L/ha before growth of legumes and grasses starts in spring.

Rangeland and Grass Pasture: To control susceptible weeds, use 1.5 to 2.75 L/ha in enough water for coverage.

Application

Table 1 - Suggested Amounts of MCPA LV 500 for Weed Control in Cereals (not underseeded to legumes) & Flax

MIXED WEEDY GROWTH	STAGE OF WEED KIND OF WEATHER	RATE L/HA	Ha TREATED /20 L
Susceptible weeds such as: burdock, cocklebur, field pennycress, flixweed, kochia, lambsquarters, mustard (except dog & green tansy), prickly 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, 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 sowthistle, sweet clover, tartary buckwheat, tumbleweed, blue lettuce*, Canada thistle*, docks*, field bindweed*, gumweed*, hedge bindweed*, lady's thumb*, perennial sowthistle*, tansy*.	Seedling(2-4 leaves)Growing rapidly	1.25+	16
	Weeds in bud Dry or cool weather Heavy infestation	1.75+	12

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

* Top growth control only.

GENERAL INSTRUCTIONS - NON-CROP USE

Ground Application: Apply 100 - 1000 L of spray solution per hectare depending on the type of application system being used. Use sufficient water to ensure uniform coverage. 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 ha 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 at the rate of 4 L per hectare. Deep-rooted perennial weeds such as bindweed and Canada thistle, may require repeated applications as new growth appears.

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 pest control product under unsafe conditions.

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

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.

+))