

95/2000

Guardzman (R)

10 L

2,4-D

AMINE 500  
Liquid Farm Weed Killer

AGRICULTURAL

WARNING          POISON

READ THE LABEL BEFORE USING

GUARANTEE:

2,4-D equivalent.... 470 g/L  
(present as amine salts of 2,4-D)

REGISTRATION NO. 17526  
PEST CONTROL PRODUCTS ACT

For ground or aerial application to  
wheat, barley, rye, oats, flax, corn,  
pastures, turf, asparagus, non-cropland  
and for the control of certain annual  
and perennial weeds.

VAN WATERS & ROGERS LTD.  
9800 Van Horne Way  
Richmond, B.C.  
V6X 1W5

2,4-D

DIRECTIONS FOR USE

GENERAL INSTRUCTIONS - CROP USE

GROUND APPLICATION: Apply 50-200 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 to the spray tank then the 2,4-D AMINE 500 with agitation, and finally, the balance of the water with continued agitation.

Spot Treatment: For knapsack application of 2,4-D AMINE 500 for spot treatment of weeds such as thistles, mix 200 mL of product in 10 L of water. Wet all foliage thoroughly.

WARNING: If preparing straight oil mixtures, do not let water get into the product or the finished mixture. Note: This product in water forms an emulsion, not a solution, which tends to separate on standing. Agitate to prevent such separation and ensure uniformity of spray mixture.

Selective Weed Control in Small Grains: Weeds differ in their susceptibility to 2,4-D AMINE 500, and not all types can be controlled satisfactorily in crops. The amount of 2,4-D Amine to use will depend upon the susceptibility and whether the crops will tolerate this amount. See chart.

Wheat, Barley, Rye: Spray from the 3-leaf expanded stage (15 cm tall) to just before the flag-leaf (shot-blade) stage. Sprays may be used after the hard dough stage to control weeds which might interfere with harvesting. To avoid crop injury, do not treat during boot and flowering stages. Winter wheat and fall rye should be treated in early spring, as soon as weeds appear and before the crop reaches the shot-blade stage.

Oats: Oats are more sensitive to 2,4-D than wheat or barley, especially when 15 cm tall (3- to 6-leaf stage). If possible, treat oats from emergence to the 3-leaf stage or from the 6-leaf to the flag-leaf stage.

Flax (Inseed): Treat after the plants reach 5 cm in height and before the bud stage. Flax should not be treated after the early bud stage. Flax is more tolerant to MCPA than 2,4-D, but 2,4-D amine may be preferred when MCPA resistant weeds are present. If seedling grasses such as green foxtail are a problem, DOWPON (R) M Grass Killer may be used in combination with 2,4-D AMINE 500. Rates over 1.5 L/ha may cause a delay in maturity which is usually offset by increased yield caused by weed control. Increasing water volume to 110 to 170 L/ha will reduce the possibility of delayed maturity.

Corn: Emergence - Use 1.5 L/ha between first emergence and when corn plants are 15 cm tall.

Postemergence - Treat with 500 mL to 1.1 L/ha when corn plants are 15 to 20 cm tall and most weeds have germinated but are still in seedling stage. Use drop nozzles to keep spray off corn foliage. Do not cultivate until at least 2 weeks after treatment.

Asparagus: Treat asparagus with 2,4-D 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.

Established Grasses - Eastern Canada: For the control of yellow rocket and other susceptible winter annual weeds, spray with 2 L/ha. Application should be made in early fall.

Established Alfalfa and Grasses - Western Canada: To control susceptible perennials or winter annuals, spray with 2,4-D AMINE 500 at 1.1 to 2 L/ha before growth of legumes and grasses starts in the spring.

Grass, Pasture and Turf Weed Control: For lawns, pastures, and other turf areas, use 2.75 to 4.25 L of 2,4-D AMINE 500 in not less than 450 L of water.

WARNING: Do not use on lawns of 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 - NON-CROP USE

GROUND APPLICATION: Apply 50-1000 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 2,4-D AMINE 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.

#### PRECAUTIONS

Causes Irritation of Skin and Eyes  
Do Not Get in Eyes  
Avoid Contact With Skin and Clothing

In case of contact, flush eyes with plenty of water for at least 15 minutes and get medical attention. Wash skin with soap and plenty of water. Remove and wash contaminated clothing and shoes before re-use.

KEEP OUT OF CHILDREN'S REACH

#### FIRST AID

If swallowed, induce vomiting. GET MEDICAL ATTENTION

#### TOXICOLOGICAL INFORMATION

Treat Symptomatically

## USE PRECAUTIONS - WARNING

FOR AERIAL APPLICATION: Do not spray when winds exceed 8 km/h. 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 2,4-D 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.

STORAGE: This product must be stored away from fertilizers, seeds, insecticides, fungicides or other herbicides intended for use in 2,4-D 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.

SPRAYER CLEANUP AND DISPOSAL OF WASTE: When spraying is complete, rinse all equipment and the original container with water and dispose of rinse water by burying in non-cropland away from water supplies. Avoid using sprayers which contained 2,4-D to apply other pesticides to sensitive crops.

### CONTAINER 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 information on the disposal of unused, unwanted product and the cleanup of spills, contact the regional office of Conservation and Protection, Environment Canada.

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

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.

APPLICATION

Suggested Amounts of 2,4-D AMINE 500 for Weed Control in Cereals (not underseeded to legumes) and flax.

| Mixed Weedy Growth   | State of Weed<br>Kind of Weather                         | L/ha   | ha treated<br>/ 20 L |
|--|--|--------|----------------------|
| Susceptible weeds such as:<br>mustard (except dog and green tansy), bluebur, burdock, cocklebur, field horsetail, field pennycress, goat's beard, prickly lettuce, hoary cress, kochia, lamb's-quarters, plantain, ragweeds, Russian pigweed, shepherd's purse, annual sunflower, sweet clover, vetch, wild radish   | Seedling<br>(2-4 leaves)<br>Growing rapidly              | 700 mL | 28                   |
|  | Weeds in bud<br>Dry, cool weather<br>Heavy infestation   | 1.1    | 18                   |
| Harder to kill weeds such as:<br>biennial wormwood, docks, dandelion, dog mustard, field peppergrass, hairy galinsoga, hedge bindweed, lady's thumb, oakleaved goosefoot, redroot pigweed, Russian thistle, smartweed, annual sowthistle, tansy, Tartary buckwheat, tumbleweed, *blue lettuce, *Canada thistle, *field bindweed, * leafy spurge, *perennial sowthistle | Seedling<br>(2-4 leaves)<br>Growing rapidly              | 1.25 + | 16                   |
|  | Weeds in bud<br>Dry or cool weather<br>Heavy infestation | 1.75 + | 11                   |

+ 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.

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