

(Sleeve)

GROUP	4	HERBICIDE
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Nufarm
MCPA Amine 500
Agricultural

Liquid Herbicide

Contains MCPA AMINE SOLUTION

ACTIVE INGREDIENT:

MCPA, present as dimethylamine salt ... 500 g a.e. /L

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

For use in wheat, barley, rye, oats,
Flax, peas, corn, pastures

REGISTRATION NUMBER 14730
PEST CONTROL PRODUCTS ACT

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

Caution

Poison



500 mL

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

Avoid contact with skin, eyes and clothing. Wash concentrate from skin or eyes immediately. Do not breathe vapours. Avoid breathing spray mist. After use wash hands and other exposed skin. Avoid spray drift. Store the container tightly closed and away from seeds, feed, fertilizer, plants and foodstuffs.

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.

DO NOT APPLY BY AIR.

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.

PROTECTIVE CLOTHING AND EQUIPMENT:

Handling the concentrate (mixing and loading): Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Rinse gloves before removal. Remove and wash contaminated clothing before reuse.

Handling the dilute spray solution (during application or repairing or cleaning equipment): Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Rinse gloves before removal. Remove and wash contaminated clothing before reuse. Applicators using a closed cab are not required to wear chemical-resistant gloves.

ENVIRONMENTAL HAZARDS

Toxic to aquatic organisms and non-target terrestrial plants. 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 the treatment. Site characteristics and conditions 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 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 strip of untreated vegetation (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 sand loam soils) and/or the depth to the water table is shallow.

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 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 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 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.

Take 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.

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.

EMERGENCY TELEPHONE NUMBERS:

For spills or transportation accidents, Chemtrec, 1-800-424-9300.

For health or environmental emergencies, Prosar, 1-877-325-1840.

For product and use information, Nufarm Agriculture Inc., 1-800-868-5444.

STORAGE:

Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination. Store at temperatures above 0°C. If subjected to freezing temperatures, warm to at least 5°C and mix thoroughly. **SHAKE WELL BEFORE USING.**

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.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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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DISPOSAL:**Recyclable Containers:**

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Before taking the container to the collection site:

3. Triple-or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

4. 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 use this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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 use 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.

DIRECTIONS FOR USE:

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, Nufarm MCPA Amine 500 Liquid Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Nufarm MCPA Amine 500 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 Nufarm MCPA Amine 500 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 Nufarm Agriculture Inc. at 1-800-868-5444 or at www.nufarm.ca.

USE PRECAUTIONS:

Avoid spray drift to any desirable vegetation NOT listed on the label as damage may occur. Avoid contamination of ponds, streams, rivers and other water sources. Do not spray during periods of high winds when spray is likely to drift. Coarse sprays are less likely to drift. Do not spray during periods of high temperatures when crops may be under stress, as damage to the crop may occur.

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

TIMING:

For best results spray when WEEDS ARE YOUNG AND ACTIVELY GROWING. Apply in good growing conditions. Application must be made before the crop canopy shields the weeds.

SPRAYER:

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.

Clean all spray equipment thoroughly before use. Select nozzle tips to apply the recommended volume per hectare. Higher water volumes will reduce the risk of crop injury. Calibrate the sprayer and adjust the boom height to ensure uniform coverage. Nozzles must be in good condition and spraying the same volume. Flat fan nozzle tips are recommended.

Buffer Zones

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, rangelands, 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.

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.

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*	All crops and non-cropland	1	1	1	1	4

*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%.

MIXING:

Shake this product well before using. Half fill the spray tank with clean water. Add the required amount of product and agitate thoroughly. Fill the tank with clean water and agitate well before use.

NOTE: If spray solution has been left standing, agitate thoroughly before use.

USES:

WHEAT, BARLEY, RYE, OATS (not underseeded with legumes): Crops may be sprayed from the full 2-leaf to the early flag leaf (shot blade) stage. Do not apply after the flag leaf stage. Treatment at the 3 to 4-leaf stage usually combines maximum crop tolerance with maximum weed susceptibility. The recommended safe crop rate for wheat, barley and rye is 1.25 litres per hectare. The recommended safe crop rate for oats is 1.1 litres per hectare. Higher rates may be needed to control certain weed species. Do not use more than 1.75L of product/ha. Possible crop injury from these higher rates is usually offset by the increased yield of the cleaner crop usually offset by the increased yield of the cleaner crop. Use 50 or more litres of water per hectare. Spraying with higher volumes of water (100 - 150 litres per hectare) may reduce the risk of crop injury. Do not apply more than one treatment per year.

FALL RYE, WINTER WHEAT: Treat in the spring between full tillering and the flag leaf (shot blade) stage. **DO NOT APPLY DURING AND AFTER THE FLAG LEAF STAGE.** DO NOT apply in the fall. The recommended safe crop rate is 1.25 litres per hectare. Higher rates may be needed to control certain weed species. Do not use more than 1.75L of product/ha. Possible crop injury from these higher rates is usually offset by the increased yield of the cleaner crop. Use 50 or more litres of water per hectare. Spraying with higher volumes of water (100 – 150 litres per hectare) may reduce the risk of crop injury.

Do not apply more than one treatment per year.

CEREALS UNDERSEEDED WITH ALFALFA OR

BIRD'S-FOOT TREFOIL: Apply when cereals are in the full 3-leaf to the early flag leaf (shot blade) stage and the seedling legumes are between the first and fourth trifoliate leaf stage and not more than 10 cm tall. Apply 0.3 to 0.56 litres of product per hectare. The recommended safe crop rate is 0.56 litres per hectare. **DO NOT** exceed the recommended safe rate. Some injury to the legumes may occur, especially if growing conditions are very favourable. Spraying in the evening and/or increased volumes of water (150 or more litres per hectare) may reduce the risk of injury. A tank-mix of Nufarm MCPA Amine 500 Liquid Herbicide at 70 mL per hectare and EMBUTOX® at 1.25 litres per hectare may be applied. Consult the EMBUTOX 625 400 label for application timing.

DO NOT apply Nufarm MCPA Amine 500 Liquid Herbicide on sweet clover. For cereals underseeded to other clovers, the use of TROPOTOX® PLUS 400 is recommended. Do not apply more than one treatment per year.

FLAX: Apply when the flax is 5 cm tall to just before the bud stage. **DO NOT** treat after the early bud stage. Due to flax's less competitive nature, weeds should be sprayed in as early a leaf stage as possible, up to the recommended leaf stage. The recommended safe crop rate is 1.0 litre per hectare. Some crop injury and delay in maturity will occur when flax is treated with more than 1.0 litre of Nufarm MCPA Amine 500 Liquid Herbicide per hectare. Higher rates may be necessary to control certain weed species. Do not use more than 1.75L of product/ha; 875 g a.e. per year. Possible crop injury from these higher rates is usually offset by the increased yield of the cleaner crop. Spraying in the evening and/or increased volumes of water (100 or more litres per hectare) may reduce the risk of flax injury.

Do not apply more than one treatment per year.

CORN (Field only): Apply as an overall spray before the corn reaches 15 cm tall (leaf extended) and/or before the 6-leaf stage. **DAMAGE TO THE CORN MAY RESULT IF AN OVERALL SPRAY IS APPLIED BEYOND THIS STAGE.** The recommended safe crop rate for an overall spray is 1.1 litres per hectare. Do not exceed the maximum safe crop rate. Use 100 or more litres of water per hectare. In case of very dry conditions, avoid spraying until one week after rain. Avoid cultivation for three weeks following spraying. **DO NOT** add oil or surfactant.

Do not apply more than one treatment per year. When hand-harvesting corn, follow a Re-entry Interval (REI) and Pre-harvest Interval (PHI) of 15 days.

PEAS (Field and Processing): Apply when vines are 10 to 20 cm long but before the flower buds are formed. The recommended safe crop rate is 0.5 litres per hectare. Apply 0.3 to 0.5 litres per hectare in 150 to 200 litres of water.

DO NOT apply to peas in Nova Scotia.

Do not apply more than one treatment per year.

ESTABLISHED LEGUMES, ESTABLISHED PASTURES WITH LEGUMES

(dormant treatment): To control certain biennial and winter annual weeds, apply 2.2 litres of product per hectare in at least 50 litres of water, BEFORE LEGUMES START THEIR GROWTH IN THE SPRING. Do not graze livestock for at least 7 days after application. DO NOT use Nufarm MCPA Amine 500 Liquid Herbicide on sweet clover. There is a possibility that plants poisonous to livestock will appear more palatable and could be grazed more readily after Nufarm MCPA Amine 500 Liquid Herbicide treatment (e.g. tansy ragwort, water hemlock, poison hemlock, death camas). Suitable precautions should be taken when such plants are present. Livestock should not be allowed to graze the treated area until poisonous plants have been removed, are dead or have resumed a normal growth habit.

Do not apply more than two treatments per year, with a minimum retreatment interval of 90 days.

PASTURE, RANGELAND AND NON-CROPLAND: (eg. Rights-of-way for transportation and/or utility lines, and in airports, wastelands, industrial parks, etc) To control tall buttercup, apply 2.7 to 3.36 litres of product per hectare in at least 50 litres of water. Apply when tall buttercup are in the pre-bud to early bud stage. Do not apply more than two treatments per year, with a minimum retreatment interval of 90 days for pasture and rangeland and 21 days for non-cropland.

SEEDLING AND ESTABLISHED RED CLOVER – WESTERN CANADA ONLY

For susceptible weeds apply 0.56 litres of product per hectare.

Do not apply more than one treatment in year of establishment.

Do not apply more than two treatments per year, with a minimum retreatment interval of 90 days for established Red Clover.

SEEDLING AND ESTABLISHED RED CLOVER FOR SEED:

Seedling: Apply at the 1-3 trifoliate stage.

Established: Apply at the breaking of dormancy in the Spring, up to 7.5 cm.

Some crop injury may be observed with low water volumes and under some growing conditions. Ground application only. Do not graze or cut for green feed.

Do not apply more than one treatment in year of establishment.

Do not apply more than two treatments per year, with a minimum retreatment interval of 21 days for Established Red Clover for seed.

SEEDLING RED CLOVER FOR FORAGE:

Apply only in the year of establishment at the 1 – 3 trifoliate stage. Do not graze or cut for green feed in the first year.

Do not apply more than one treatment per year.

For susceptible weeds apply 0.56L/ha.

WEEDS CONTROLLED (DO NOT exceed the rates given for each specific crop identified in the Uses section)

SUSCEPTIBLE: Easy-to-control weeds in the seedling stage (2 to 4 leaf) and growing rapidly. Use 0.7 to 1.1 litres per hectare. Use the higher rate for larger weeds, dry or cold weather, or heavy infestations.

Bluebur, burdock (before 4-leaf stage), cocklebur, false flax, flixweed, lamb's-quarters, mustards (except dog and tansy), prickly lettuce, ragweeds, redroot pigweed, Russian pigweed, shepherd's-purse, stinkweed (field pennycress), vetch, wild radish, wild sunflower.

LESS SUSCEPTIBLE: Harder-to-control weeds in the seedling stage (2 to 4-leaf) and growing rapidly. Use 1.25 to 2.25 litres per hectare. Use the higher rate for larger weeds, dry or cold weather, or heavy infestations.

Weeds listed under susceptible plus annual sow-thistle, biennial wormwood, common chickweed, curled dock (before the 4-leaf stage), daisy fleabane, goat's-beard, groundsel, hairy galinsoga, hawkweed, heal-all, hempnettle (before the 4-leaf stage), knotweed (before the 4-leaf stage), kochia, oak-leaved goosefoot, peppergrass, pineappleweed, plantain, purslane, sheep sorrell, smartweed, stinging nettle, velvetleaf, wild radish, yellow rocket (before the 4-leaf stage).

TOP GROWTH CONTROL ONLY: Use 1.25 to 2.25 litres per hectare. Blue lettuce, bull thistle, burdock, buttercup, Canada thistle, chicory, curled dock, dandelion, dog mustard, field bindweed, gumweed, hedge bindweed, hoary cress, leafy spurge, mouse-eared chickweed, perennial sow-thistle, Tartary buckwheat, teasel, wild buckwheat, wormwood, yellow rocket.

CLEANING OF SPRAYER:

Thoroughly clean the herbicide sprayer before applying any other chemical on crops which may be damaged (see USE PRECAUTIONS). Wash the outside of the sprayer and drain the tank completely. Remove and clean filters, screens and nozzle tips separately. Fill the sprayer tank with clean water. With the agitator running, flush out the lines and boom, then drain. Fill the sprayer with clean water and for each 100 L add 1 L household ammonia. Operate the pump and agitator for 15 minutes. If possible, let the solution remain in the tank and hoses overnight; recirculate and flush out the lines and boom, then drain. Rinse out twice with clean water, recirculating and draining each time. DO NOT contaminate irrigation or drinking water when cleaning the sprayer.

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