

GROUP	4	HERBICIDE
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Nufarm

CMPP-P/2,4-D AMINE

LIQUID HERBICIDE

**FOR BROADLEAF WEED CONTROL ON TURF, GOLF COURSE FAIRWAYS,
PARKS AND LAWNS.**

COMMERCIAL

GUARANTEE: 2,4-D, present as dimethylamine salt ... 360 g a.e./L
Mecoprop-P, present as dimethylamine salt ... 180 g a.e./L

REGISTRATION NO: 28047

PEST CONTROL PRODUCTS ACT

24 HOUR EMERGENCY RESPONSE NUMBER 1-800-424-9300

WARNING POISON

NET CONTENTS: 1 L - 210 L

**READ THE ENTIRE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

Nufarm Agriculture Inc.
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Calgary, Alberta
T2H 1H9
403-253-8471

PRECAUTIONS:

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Do not take internally.
3. Avoid inhalation of vapour, dust or spray mist and contact with eyes, skin or clothing.

PROTECTIVE CLOTHING AND EQUIPMENT:

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, repairing or cleaning equipment):

Wear a 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.

OPERATOR USE PRECAUTIONS:

- Wear freshly laundered clothing and clean protective equipment daily.
- Rinse gloves before removal.
- Wash hands before eating, drinking, using tobacco or using the toilet
- If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.
- After using this product, remove clothing and launder separately, and promptly and thoroughly wash hands and exposed skin with soap and water. Follow manufacturer's instructions for cleaning personal protective clothing and equipment. If no such instructions for washables are provided, use detergent and hot water. Keep and wash personal protective equipment separate from household laundry.
- After work, remove all clothing and shower using soap and water.
- Clean spray equipment thoroughly after use.
- Do not contaminate domestic or irrigation water, lakes, streams and ponds by the cleaning of equipment or the disposal of wastes.

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:

This product may cause severe irritation to the eyes. Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness or nausea. Treat symptomatically.

ENVIRONMENTAL HAZARDS:

Toxic to birds. Toxic to small wild mammals. Toxic to aquatic organisms and non-target terrestrial plants. Toxic to broadleaf terrestrial plants. This product will harm other broadleaf plants in the vicinity of the treatment area. If applying this product using a handheld sprayer, do not directly spray or allow the spray to drift onto ornamentals or gardens. Observe buffer zones specified under DIRECTIONS FOR USE.

Leaching:

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.

Run-Off:

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, bare soil, compacted soil, or clay.

Avoid application of 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 between the treated area and the edge of the water body.

STORAGE:

1. Store in original, tightly closed container.
2. Do not ship or store near food, feed, seed or fertilizers.
3. Store in cool, dry, locked, well-ventilated area without floor drain.
4. Herbicides should be shipped or stored separately from other pesticides to avoid cross-contamination.
5. Keep away from fire or open flame, or other sources of heat.
6. Protect from frost.

DISPOSAL:

For 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 any 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.

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 the 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.

DIRECTIONS FOR USE:

Nufarm CMPP-P/2,4-D Amine Liquid Herbicide is safe for use on established turf containing fescue and bluegrass species. This product contains Mecoprop-P and 2,4-D which can be used to control a wide range of weeds including those resistant to 2,4-D such as Chickweed and Black Medick. **DO NOT USE ON BENT GRASSES.**

TRANSFER SYSTEM: Containers larger than 20L - Use a transfer system that avoids open pouring when transferring the liquid concentrate from such containers into the spray tank.

WEEDS CONTROLLED:

Clover, dandelion, chickweed, ground ivy, plantain, black medick, stitch-wort, creeping charlie and knotweed.

RESTRICTIONS AND LIMITATIONS:

1. DO NOT USE ON GREENS, SEEDLING GRASSES OR PURE STANDS OF BENTGRASS.
2. Avoid spraying in very hot (over 27°C), droughty or rainy conditions.
3. Newly seeded areas should not be sprayed within 4 weeks after grass emergence. After the four week period only half of the recommended rate should then be used.
4. Do not re-seed within 4 weeks of application.
5. Do not irrigate within 24 hours of application.
6. Avoid mowing at least 3 days before and after treatment.
7. Do not use treated grass clippings as a mulch on susceptible plants.
8. This product does not prevent weeds. Apply only when weeds are present. This product works best when applied to the leaves of actively growing weeds.

9. DO NOT apply by air.
10. DO NOT apply to the exposed roots of trees and ornamentals.
11. As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.
12. DO NOT contaminate irrigation/drinking water supplies or aquatic habitats by cleaning or equipment or disposal of wastes.

RATE OF APPLICATION:

Use 2 - 3 litres of **Nufarm CMPP-P/2,4-D Amine Liquid Herbicide** per hectare in 300 - 600 litres of water. Ensure thorough spray coverage without excessive run-off. The specific rate will depend on size and species of weeds present, time of year and weather conditions.

MAXIMUM APPLICATION FREQUENCY TO TURF:

DO NOT apply more than two broadcast applications per season. This does not include spot treatments.

If weed populations do not warrant a broadcast application (eg. entire lawn), consider spot treatments that target only weedy areas.

TIME OF APPLICATION:

To achieve optimal results apply in warm weather when weeds are young and actively growing and temperature is above 10°C. Results can normally be seen within 7 days. Complete killing may take up to 1 month. Therefore application during the months of May, June and September are recommended. Lawns should not be cut for several days before and after treatment. For Creeping Charlie apply as a spot treatment in June while the plants are young. This should be followed up with a second treatment in September. For knotweed apply in May or June when young plants come up. Repeat as necessary.

RE-ENTRY INTERVAL FOR TURF:

Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treated areas until spray has thoroughly dried.

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*	Turf in parks	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%.

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, **Nufarm CMPP-P/2,4-D Amine Liquid Herbicide** is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to **Nufarm CMPP-P/2,4-D Amine 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 CMPP-P/2,4-D Amine 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.

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.

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