

(container)

 **Dow AgroSciences**
Formula 40*C
Liquid Farm Weed Killer

GROUP	4	HERBICIDE
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- Contains 2,4-D.
- For application to wheat, barley, rye, corn, established pastures and rangeland, turf, asparagus, non-cropland and for the control of certain annual and perennial weeds.

AGRICULTURAL

READ THE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN

GUARANTEE: 2,4-D (isomer specific) 470 g/L
(present as amine salts)

REGISTRATION NO. 2687 PEST CONTROL PRODUCTS ACT

WARNING  **POISON**

NET CONTENTS: 20 L

Dow AgroSciences Canada Inc.
Suite 201, 1144 - 29 Avenue N.E.
Calgary, Alberta
T2E 7P1
1-800-667-3852

*Trademark of Dow AgroSciences LLC

PRECAUTIONS

MAY CAUSE SKIN AND EYE IRRITATION

DO NOT GET IN EYES

AVOID CONTACT WITH EYES, SKIN AND CLOTHING

DO NOT INHALE FUMES

AVOID BREATHING SPRAY MIST

AVOID SPRAY DRIFT

Wash skin with soap and plenty of water. Remove and wash contaminated clothing and shoes before reuse.

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., refer to www.cropro.org/.

PROTECTIVE CLOTHING AND EQUIPMENT

Handling the Concentrate (mixing and loading): Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and protective eyewear (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 Mixture (during application or 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 the applicator is in an enclosed truck/tractor cab or in an enclosed airplane cockpit.

MIXING

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.

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.

FIRST AID

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed: Contact a physician or poison control centre and induce vomiting followed by at least 300 mL of water to children and 700 mL to adults. After vomiting occurs, give 30 to 40 mL of activated charcoal in 100 mL of water.

If in eyes: Flush immediately with plenty of water. If irritation develops, contact a physician.

If on skin: Wash thoroughly with soap and water.

TOXICOLOGICAL INFORMATION

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient.

AGRICULTURAL CHEMICAL

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

STORAGE

This container must be stored tightly closed away from fertilizers, feeds, seeds, insecticides, plants, fungicides, foodstuffs or other herbicides intended for use on 2,4-D sensitive crops.

If this product is exposed to temperatures below 0°C, it should be warmed to at least 5°C and mixed thoroughly 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.

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.

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.

(booklet)

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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.

DIRECTIONS FOR USE

GROUND APPLICATION - Crop Use

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.

GROUND APPLICATION - Non-Crop Use

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.

To Prepare a Spray

Add half the required amount of water to the spray tank, then the Formula 40C Liquid Farm Weed Killer with agitation and finally the balance of the water with continued agitation.

Spot Treatment

For knapsack application of Formula 40C Liquid Farm Weed Killer 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

Weeds differ in their susceptibility to Formula 40C Liquid Farm Weed Killer and not all types can be controlled satisfactorily in crops. The amount of Formula 40C Liquid Farm Weed Killer to use will depend upon the susceptibility and whether the crop will tolerate this amount. See Table 1.

Wheat, Barley, Rye

Spray from the 3-leaf expanded stage (15 cm tall) to just before the flag-leaf (shot-blade) stage. 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.

Table 1: Suggested Amounts of Formula 40C Liquid Farm Weed Killer for Weed Control in Cereals (not underseeded to legumes)

Mixed Weedy Growth	Stage of Weed Kind of Weather	Rate (L/ha)	Hectares Treated/ 20 L Pail
Susceptible weeds such as: mustard (except dog and green tansy), bluebur, burdock, cocklebur, field horsetail, stinkweed, goatsbeard, prickly lettuce, hoary cress, kochia, lamb's-quarters, plantain, ragweeds, Russian pigweed, shepherd's-purse, annual sunflower, sweetclover, vetch, wild radish.	Seedling (2-4 leaves) Growing rapidly	700 mL	28
	Weeds in bud Dry, cool weather Heavy infestation	1.1	18
Harder to kill weeds such as: biennial wormwood, docks, dandelion, dog mustard, field peppergrass, hairy galinsoga, hedge bindweed, lady's-thumb, oakleaf goosefoot, redroot pigweed, Russian thistle, smartweed, annual sowthistle, tansy, tartary buckwheat, tumbleweed, blue lettuce [▼] , Canada thistle [▼] , field bindweed [▼] , leafy spurge [▼] , perennial sowthistle [▼] .	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 a higher relative yield from a less weedy crop.

[▼]Top growth control only.

Pre-harvest Intervals

- Do not permit lactating dairy animals to graze fields within 7 days after application.
- Do not harvest as forage cut hay within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

Corn

Emergence: Use 1.5 L Formula 40C Liquid Farm Weed Killer/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.

Pre-harvest Intervals

- Do not permit lactating dairy animals to graze fields within 7 days after application.
- Do not harvest as forage within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

Asparagus - Eastern Canada Only

Apply Formula 40C Liquid Farm Weed Killer early in the season, immediately after a thorough cutting or disking. The recommended crop rate is 2.75 L/ha. If emerging spears are contacted directly by spray or spray drift they may become distorted i.e., twisted. Spears emerging afterwards will be normal. Formula 40C Liquid Farm Weed Killer may also be applied 3 weeks after a post harvest disking with a spray directed to avoid the fern. Apply 2.0 to 2.75 L/ha in 50 to 200 L of water.

Established Grasses - Eastern Canada

For the control of yellow rocket (before the 4 leaf stage), and other susceptible winter annual weeds such as common chickweed, common purslane, curled dock (before the 4 leaf stage), dog mustard, goosefoot, groundsel, hawkweed, heal-all, knotweed (before the 4 leaf stage), peppergrass, pineappleweed, prostrate pigweed, sheep sorrell, smartweed and velvet leaf. Spray with 2.0 L of Formula 40C Liquid Farm Weed Killer/ha. Application should be made in early fall. Use 100 to 200 L/ha of water.

Established Pastures and Rangelands - Western Canada

To control susceptible perennials or winter annuals, spray with Formula 40C Liquid Farm Weed Killer at 1.1 to 2.0 L/ha before growth of legumes and grasses starts in the spring.

Pre-harvest Intervals

- Do not permit lactating dairy animals to graze fields within 7 days after application.
- Do not harvest forage or cut hay within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

Turf Weed Control

For lawns and other turf areas use 2.25 L of Formula 40C Liquid Farm Weed Killer in not less than 450 L of water. DO NOT APPLY BY AIR.

Re-entry Interval for Turf

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

Maximum Application Frequency for Turf

For good turf/lawn management, normally 2 applications per year per treatment site are adequate. This does not include spot treatments.

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.

USE PRECAUTIONS FOR AERIAL APPLICATION - To Cereal Crops, Pastures, Rangeland And Non-Crop Land (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.
- 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 pressures 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 or 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 nozzle or nozzle configuration which minimize the production of fine spray drops. Do not angle nozzles forward into the airstream 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 a 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.

GENERAL WEED CONTROL

For taller weed growth such as in vacant lots, on roadsides and along fencerows, sufficient spray solution should be used to wet all foliage thoroughly. Use Formula 40C Liquid Farm Weed Killer 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.

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.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Formula 40C Liquid Farm Weed Killer is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Formula 40C Liquid Farm Weed Killer 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 Formula 40C Liquid Farm Weed Killer 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 Dow AgroSciences Canada Inc. at 1-800-667-3852 or at www.dowagro.ca.

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