

**Nufarm**

**DESORMONE**

**Liquid Herbicide**

EMULSIFIABLE CONCENTRATE

Herbicide for controlling mixed brush and weeds in non-cropland areas

**COMMERCIAL**

**WARNING**

**POISON**

REGISTRATION NO. 15027 PEST CONTROL PRODUCTS ACT

**GUARANTEE:**

Dichlorprop, present as 2-ethylhexyl ester ... 350 g/L  
2,4-D, present as 2-ethylhexyl ester ... 330 g a.e./L

**READ THE LABEL AND BOOKLET BEFORE USING**

Nufarm Agriculture Inc., 5507 First St. S.E., Calgary, AB T2H 1H9  
1-800-868-5444

(4 – 450) Litres

24 Hour Emergency Response Number 1-800-424-9300

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN.** Harmful if swallowed. Avoid contact with clothing, skin or eyes and do not inhale fumes or spray mist. Wear protective clothing, including eye protection while spraying or mixing. Do not contaminate any body of water. Contamination of water may kill fish. Do not allow to contact desirable vegetation. Exercise care during application to reduce the likelihood of spray drift damaging nearby sensitive plants. Do not spray when there is any danger of wind.

## **ENVIRONMENTAL HAZARDS**

Toxic to small mammals, birds, aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE**.

This product will harm other broadleaved 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.

Do not spray exposed roots of trees and ornamentals.

**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.

**RUNOFF:** To reduce runoff from treated areas into aquatic habitats avoid application to areas with moderate to steep slope, 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.

To prevent runoff, avoid spraying on driveways, sidewalks or other hard surfaces.

Do not irrigate within 24 hours after application.

## **PROTECTIVE CLOTHING AND EQUIPMENT**

**Handling the concentrate (mixing and loading):** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes and protective eyewear (face shield or safety glasses). Rinse gloves before removal.

Coveralls should also be worn when open pouring from containers.

**Handling the dilute spray solution (during application or repairing or cleaning equipment):** Wear coveralls over 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 an enclosed airplane cockpit.

When handling more than 800 L of Nufarm Desormone Liquid Herbicide per day, workers must also use a closed system.

## **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.

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

### **FIRST AID**

**If swallowed**, call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. 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 contains petroleum distillates. Vomiting may cause aspiration pneumonia. No specific antidote. This product may cause mild 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.

### **EMERGENCY TELEPHONE NUMBERS**

For spills or transportation accidents, Chemtrex, 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**

Store in tightly closed containers and prevent from contacting feeds, fertilizers, plants, seeds, foodstuffs, insecticides or fungicides. May be stored at any temperature. **SHAKE WELL BEFORE USING.**

## **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 further use.

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

### **For Returnable Containers:**

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### **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 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.

## **DECONTAMINATION**

Wear protective clothing, approved respirator and impervious gloves before handling spills or damaged product. For spills do not allow product to spread. Prevent entry into ditches and water ways. Cover spill with sweeping compound and place contaminated material into an approved waste container. Place damaged container into waste containers and mark with contents.

**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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**GENERAL INFORMATION:**

DESORMONE Herbicide is a concentrated combination of 2,4-D and dichlorprop as a low volatile ester.

DESORMONE Herbicide is specifically designed for utilities and other industrial uses to control woody plants.

DESORMONE Herbicide mixes with oil or kerosene and emulsifies in water.

DESORMONE Herbicide controls many noxious perennial weeds on uncropped land, such as along highways and ditchbanks.

DESORMONE Herbicide is not recommended for selective weed control in crops.

DESORMONE Herbicide is effective for controlling:

Alder	Hardhack	Scotch Pine
Aspen	Hawthorne	Silver Maple
Basswood	Hazel	Sugar Maple
Balsam Fir	Hickory	Sumac
Birch	Honeysuckle	Tamarack
Blueberry	Manitoba Maple	White Cedar
Buckbrush	Poison Ivy	Wild Apple
Bur Oak	Poplar	Wild Cherry
Elderberry	Raspberry	Wild Plum
Elm	Red Pine	Wild Raspberry
Ground Juniper	Rose (some regrowth)	Willow

To reduce potential drift hazard on non-crop locations, LO-DRIFT may be added. Follow all directions on the LO-DRIFT label for the correct mixing sequence.

**DIRECTIONS FOR USE:**

DO NOT apply this product directly to freshwater habitats such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands, estuaries or marine habitats.

DO NOT contaminate irrigation/drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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

**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.

**Aerial application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

## **FOLIAGE METHOD**

This is the standard method for high volume sprays along fencerows, highways, rights-of-way. Use it as a first spray on thick brush composed of mixed species. Apply spray to both foliage and stems of all plants from the time foliage is fully developed in spring until plants begin to go dormant. For effective control, all leaves, stems and suckers must be thoroughly wet to ground line. Some regrowth may be expected on resistant species such as ash, oak and maple.

Add 7 to 10 litres DESORMONE Herbicide to 1000 litres of water. Apply 750 – 1350 L per hectare of spray mixture. Mix thoroughly before spraying. Apply with power equipment. To control mixed deciduous and coniferous species such as aspen, alder, cherry, balsam poplar, basswood, birch, elm, bur oak, spruce, pine, balsam fir, tamarack, and white cedar, apply a mixture of 7.0 litres DESORMONE Herbicide plus 6.25 litres DYCLEER<sup>®</sup> (480 g/L) per 1000 litres of water when leaves of deciduous species are fully expanded. Cover all foliage and stems to the point of run-off. Brush and trees over 3 meters should be cut close to the ground and sprayed when the regrowth is over 0.6 meters tall.

Do not apply more than two treatments per year.

When using hand-held equipment, do not expose to more than 15 L of Nufarm Desormone Liquid Herbicide/day/person without a respirator or 24 L/day/person with a respirator.

### **BASAL BARK METHOD**

Wet the base of all stems until the spray puddles on all sides and collects around the root collar at ground line. This spray may be applied in any season. Apply DESORMONE Herbicide with the basal bark method on scattered brush or as a “second spray” on species resistant to a first foliage spray. Mix 20 to 27 litres of DESORMONE Herbicide in 1000 litres of oil. Apply with low volume knapsack sprayer or power equipment. Concentration will depend on species present, volume of spray used and season applied. When using hand-held equipment, do not expose to more than 8.2 L of Nufarm Desormone Liquid Herbicide/day/person.

### **MODIFIED BASAL METHOD**

Drench the base of plants, then wet remaining stems and leaves to run-off, spraying 4/5 of the plants from bottom up. Treat when brush is in full foliage. This method may be used where susceptible species have been controlled by prior sprays and resistant species, such as maple, oak and ash remain. Drenching the base of the plant and wetting all stems to run-off is essential for complete control. Early season spraying: Add 7 to 10 litres of DESORMONE Herbicide to 100 litres of diesel oil and mix thoroughly. Add this mixture to 890 litres of water.

During dry weather, or the latter part of spray season: Add 10 litres DESORMONE Herbicide to 180 litres of diesel oil and mix thoroughly. Add this mixture to 810 litres of water. Stir thoroughly before spraying, particularly if material is allowed to stand for more than one hour after mixing.

When using hand-held equipment, do not expose to more than 8.2 L of Nufarm Desormone Liquid Herbicide/day/person.

### **CUT SURFACE METHOD**

#### **Stump**

This method can be used at any time of year but it is most effective when applied as soon as possible after trees are cut. Spray the entire stump, particularly bark and exposed roots. A thorough drenching is essential for complete control. Use this method after the original or capital clearing. It is the first step toward a chemical brush control program on newly cleared highways and rights-of-way. Spray is most effective and economical on stumps 8 to 10 cm and larger.

Mix 27 litres of DESORMONE Herbicide in 1000 litres of oil. Apply with low volume knapsack sprayer using a solid cone nozzle of medium orifice.

When using hand-held equipment, do not expose to more than 8.2 L of Nufarm Desormone Liquid Herbicide/day/person.

### **Frill**

Make a frill by using an axe to cut overlapping notches in a continuous ring around the trunk near its base. Cut through the bark but do not remove chips. This method is recommended for cull trees 13 to 15 cm in diameter and larger. Treat freshly cut frills at any time of the year.

Mix 27 litres of DESORMONE Herbicide in 1000 litres of oil. Pour in as much of this mixture as the frill will hold without wasting chemical.

When using hand-held equipment, do not expose to more than 8.2 L of DESORMONE Nufarm Desormone Liquid Herbicide/day/person.

### **AERIAL APPLICATION METHOD**

For control of aspen, poplar and white birch, mix 7.2 litres of DESORMONE Herbicide plus 5.2 litres of DYCLEER<sup>®</sup>. This tankmix may be applied aerially in not less than 85 litres of water per hectare. Do not use nozzle pressure above 300 kPa. Do not spray when wind velocities are above 8 km/hour. Avoid drift onto desirable vegetation. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

### **USE PRECAUTIONS FOR AERIAL APPLICATION (e.g. rights-of-way for transportation, rights-of-way for utility lines, in wastelands):**

- Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.
- Avoid direct applications to any body of water. Do not contaminate water through spray drift or by cleaning of equipment or disposal of wastes.
- Use a minimum of 30 L/ha spray volume.
- Use boom pressure 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 crop or other desirable broadleaf plants or non-target species and do not permit spray mists to drift onto them.
- Coarse sprays are less likely to drift, therefore, use only nozzles 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 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.

### **OPERATOR PRECAUTIONS FOR AERIAL APPLICATION:**

Do not allow the pilot to mix chemical to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls over a long-sleeved shirt, long pants and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

### **GRAZING RESTRICTION:**

Treated areas can not be grazed or cut for hay.

### **GENERAL BROADLEAF WEED CONTROL:**

To control most biennial and herbaceous perennial weeds, apply 3.5 to 5 litres DESORMONE Herbicide in 200 to 500 litres of water per hectare. Apply in early summer to control the following species:

Do not apply more than two treatments per year.

When using hand-held equipment, do not expose to more than 8.2 L of Nufarm Desormone Liquid Herbicide/day/person.

Alfalfa	Curled dock	Milkweed (top kill)	Toadflax (partial control)
Bull thistle	Dandelion	Mullein	Vetch
Burdock	Dogbane	Plantain	Wild carrot
Buttercup	Goldenrod	Perennial sow thistle	Yellow rocket
Canada thistle	Goat's-beard	Sweet clover	(and most annual weeds
Chicory	Hawkweed	Tansy	including ragweed)
Cinquefoil	Horsetail	Teasel	

**To prepare a spray:** Add one half of the required amount of water or oil to the spray tank, then add this product with agitation and finally, the balance of the water or oil with continued agitation.

**NOTE:** If this material is to be used in straight oil mixture, do not let water get into it or the finished mixture.

**NOTE:** This material forms an emulsion in water - not a solution. This tends to separate on standing. Provide agitation to prevent such separation and insure a uniform spray mixture.

**BUFFER ZONES TO PROTECT SENSITIVE TERRESTRIAL AND AQUATIC HABITATS**

Use of the following spray methods or equipment DO NOT require a buffer zone: hand-held or backpack sprayer and spot treatment.

For application to rights-of-way, buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies that minimize off-site drift, including meteorological conditions (e.g. wind direction, low wind speed) and spray equipment (e.g. coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified buffer zones for protection of sensitive aquatic habitats.

The buffer zones specified in the tables 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.

Seasonal water bodies require buffer zones if there is water in them during application. Water bodies which do not fill on an annual basis need not be buffered.

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*	Non-cropland (including rights-of-way** and brush control)	1	1	1	1	2

Aerial	Non-cropland (including rights-of-way**)	6.8 L/ha	Fixed wing	70	0	1	0	150**
			Rotary wing	35	0	1	0	80**
		13.6† L/ha	Fixed wing	125	1	15	1	225**
			Rotary wing	50	1	5	1	100**

\* 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 application to rights-of-way, buffer zones for protection of sensitive terrestrial habitats are not required.

† Do not exceed the application rates given in the DIRECTIONS FOR USE section

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.

DYCLEER® is a trademark of Syngenta Crop Protection Canada Inc.



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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.