

SLEEVE

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 . . . 350 grams per litre**  
**2,4-D (isomer specific) . . . 330 grams per litre**  
**(both present as esters)**

**READ THE LABEL, BOOKLET AND OPERATOR'S MANUAL BEFORE USING.**

**115 LITRES**

Nufarm Agriculture Inc. 5507 First St. S.E., Calgary, AB T2H 1H9

**24 HOUR EMERGENCY RESPONSE NUMBER 1-202-483-7616 Collect**

**PRECAUTIONS: KEEP OUT OF THE 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.

**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 5L.

**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.

Gloves are not required during application when applicator is in an enclosed tractor or 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.

**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:** In case of contact with skin, remove any contaminated clothing and wash skin with warm soapy water. **In cases involving contact with eyes**, flush immediately with plenty of clean water, then seek medical attention. Contains petroleum distillates. If ingested **DO NOT** induce vomiting. Promptly drink a large quantity of milk, or egg white, or gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Obtain medical attention or call a poison control centre. Do not give anything by mouth to an unconscious person. 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. For further information consult the Material Safety Data Sheet.

**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 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).

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.

#### **DISPOSAL (FOR RETURNABLE - REFILLABLE CONTAINERS)**

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#### **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 control product is to be used only in accordance with the directions on the label. It is an offense 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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## GENERAL INFORMATION

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

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

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

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

**DESORMONE** 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

### 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. 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** 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 .6 meters tall.

**DYCLEER** is a trademark of BASF Inc.

## DESORMONE + TCA

**DESORMONE** may be tank-mixed with TCA sodium salt for combined control of conifers (spruce, balsam and pine) and deciduous species as listed on the **DESORMONE** label. Mix 7.1 - 8.6 L of **DESORMONE** with 10.4 - 14.5 kg active ingredient TCA sodium salt in 1000 L of water.

### **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** 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** 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.

### **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** 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** 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.

### **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.

#### **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** in 1000 litres of oil. Pour in as much of this mixture as the frill will hold without wasting chemical.

### **Aerial Application Method**

For control of aspen, poplar and white birch, mix 7.2 litres of **DESORMONE** plus 5.2 litres of **DYCLEER**<sup>®</sup>. This tankmix may 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.

### **USE PRECAUTIONS FOR AERIAL APPLICATION (Utility Rights-of-Way, Industrial Uses):**

- 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.

**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** in 200 to 500 litres of water per hectare. Apply in early summer to control the following species:

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 and
Canada thistle	Goat's-beard	Sweet clover	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.

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