

2000/2005

COMMERCIAL

18.9 Litres

**Dacamine® 4-D
Liquid 2,4-D Herbicide
Non-Volatile**

READ LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN

WARNING

POISON

GUARANTEE: 2,4-D (present as amine) 435 g/L

REGISTRATION NUMBER 09540 PEST CONTROL PRODUCTS ACT

ZENECA Agro,
a business of ZENECA Corp.
250-3115 12th Street N.E.
Calgary, AB T2E 7J2

D98/A-1

PRECAUTIONS

Keep out of reach of children.
Harmful if swallowed or absorbed through the skin.
DO NOT get in eyes. Causes eye and skin irritation.
DO NOT allow contact with skin or clothing.
Avoid breathing spray mist.

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 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.

FIRST AID

If swallowed, DO NOT induce vomiting. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Seek medical attention.

In case of eye contact, flush eyes with plenty of water for at least 15 minutes and seek medical attention. **If contact with skin**, wash exposed skin gently with plenty of soap and water.

EMERGENCY TELEPHONE NUMBER

All hours, 1-800-327-8633 (FASTMED) **ONLY** for health and environmental information.

DISPOSAL

1. Rinse the emptied container and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.

4. Dispose of the container in accordance with provincial requirements.
5. For more information on the disposal of unused, unwanted product and the cleanup of spills, contact the Provincial Regulatory Agency or the Manufacturer.

NOTICE TO USER

This control product is to be used only in accordance with the directions on this label. It is an offense under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

DIRECTIONS FOR USE

General Information

DACAMINE 4-D is an oil soluble, water-emulsifiable amine concentrate of 2,4-D. It combines the advantages of both the ester and amine forms of 2,4-D. DACAMINE 4-D contains both the non-volatile safety features of amines and the effectiveness of esters. It is designed to control weeds on croplands and turf areas. A broad range of annual broadleaf weeds are controlled, as well as field bindweed, Canada thistle and leafy spurge.

Time of Application

Best results are obtained when DACAMINE 4-D is used on weeds that are young and rapidly growing. Application of the low rate to susceptible annual weeds such as wild mustard, lambsquarters, pigweed and common ragweed in cereals and corn usually will be satisfactory. The higher rates specified for these crops should be used under conditions where kill is difficult or when the top growth of perennial weeds such as field bindweed, leafy spurge and Canada thistle are to be controlled. When used as a selective spray in crops, the stage of growth of the crop must be considered as outlined. Some woody plants and weeds are hard to kill, and repeat applications may be necessary.

Preparation of the Spray

Fill the spray tank with half the required amount of water. Then add the recommended amount of DACAMINE 4-D with agitation and continue filling the spray tank with water. Use enough water per hectare to give uniform coverage. The amount of water required for low-volume applications may vary from 50-250 litres per hectare. For high volume applications, 1,100 litres or more of water will be needed for good coverage. In either case, use the amount of DACAMINE 4-D as recommended

below.

Use Precautions for Aerial Application (to cereal crops, established pasture, rangeland, and non-crop land)

- . Avoid direct application to any body of water. Do not contaminate water through spray drift or by cleaning of equipment or disposal of wastes.
- . Do not use less than 50 litres of water per hectare. 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 crops 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, 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.

Uses

Wheat, Barley, Rye: Apply DACAMINE 4-D at the rate of 0.75-1.5 litres per hectare in sufficient water for uniform coverage on small grains when full-tillered or stooled (10-20 cm), but before head emerges from the boot. DO NOT use on grains undersown with legumes such as alfalfa or clovers, unless

legume injury can be tolerated. DO NOT apply when grain is headed.

For perennial weeds and other conditions where control is difficult, use the higher rate.

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.

Corn: Use 0.75-1.2 litres per hectare. Spray over the top (non-directed up to 15 cm leaf extended). When spraying corn above 15 cm stage, use drop nozzles to direct spray away from corn leaves.

For perennial weeds and other conditions where control is difficult, use the higher rate.

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.

Forage Crops (Hayfields, Established Pastures, Rangeland): To control many broadleaved weeds in pastures and meadows and rangelands, use 2.75 litres per hectare of DACAMINE 4-D in sufficient water to provide for uniform application. Treat pastures when weeds are growing actively. DO NOT apply when grass is in boot to milk stage. DO NOT apply to recently seeded pastures until grass is well-established. Most legumes are usually injured or killed at the rates recommended.

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.

Lawn, Golf Courses and Similar Turf: Apply 2.75 litres of

DACAMINE 4-D per hectare in sufficient water to provide uniform coverage. For treating small areas, use approximately 25-30 mL of DACAMINE 4-D in 10 litres of water per 100 sq. metres. DO NOT apply to newly seeded lawns until grass becomes well-established or on creeping grass such as bentgrass. Re-entry Interval for Turf: Do not allow people (other than applicator) or pets on treated area during application. Do not enter treated areas until spray has thoroughly dried.

Maximum Application Frequency to Turf: For good turf/lawn management, normally two applications per year per treatment site are adequate. This does not include spot treatments. **Woody Plant Control In Non-Cropland Areas:** To control 2,4-D susceptible woody plants such as willow, alder, buckbrush, sumac and elderberry in non-cropped or other waste areas, use 11-15 litres in 1,100 litres of water in spring or early summer. For treating small areas, use 9-12 mL of DACAMINE 4-D in 1 litre of water. Wet thoroughly all parts of the plants, including foliage and stems to point of runoff.

General Weed Control: On vacant lots, roadsides and along fence rows, use 2.75-5.5 litres of DACAMINE 4-D in 1,100 litres of water per hectare. Thoroughly wet all foliage to runoff. Application should be made to weed species in an early and active stage of growth.

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.

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.

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