

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

Herbicide



DACTHAL®

Reg. No. L 1372 Act No. 36 of 1947
N-AR 1228

4. 17/01/2023 – Sept2023

A wettable powder pre-emergence herbicide for the control of annual grasses and some broadleaf weeds in direct seeded, transplanted and bulb planted onions, gladioli corms and cormels, certain brassicae and strawberries.

GROUP

3

HERBICIDE

ACTIVE INGREDIENT

chlorthal-dimethyl (benzoic acid) 750 g/kg



Hazard Statement:

Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Avoid release to the environment.
Collect spillage.

kg

villa



UN Number: 3077

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07

P.O. Box 801, Kempton Park, 1620

Tel. (011) 396 2233

Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946

24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

DACTHAL®

Reg. No. L1372 Act No. 36 of 1947

N-AR 1228

HRAC HERBICIDE GROUP CODE: 3

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chlorthal-dimethyl (benzoic acid) 750 g/kg

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KEMPTON PARK, 1620 Tel. (011) 396 2233

WARNINGS**Hazard statement:**

Toxic to aquatic life with long lasting effects.

- Do not plant crops other than onions, gladioli, brassicas and strawberries within 12 weeks of application of **DACTHAL®**.
- The product may cause eye irritation.
- Store in a cool, dry, well-ventilated place in tightly closed original container.
- Store away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions, because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weeds to the remedy concerned, as well as by the method, time and accuracy of application. The registration holder further does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned, due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in event of any uncertainty.

PRECAUTIONS**Precautionary statements:**

Avoid release to the environment.

Collect spillage.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face and change of clothing.
- Avoid spray drift onto susceptible or edible crops, grazing, rivers, dams and areas not under treatment.
- Prevent contamination of food, feed, drinking water and eating utensils.

For safety when mixing:

- Wear eye protection (face shield). If you get it in your eyes, flush it out at once.
- Wear rubber gloves. If you get it on your skin, wash it off at once.
- If you spill it on your clothes, change and wash them.
- **CLEAN THE EMPTY PLASTIC BAG AS FOLLOWS:** Turn the bag inside out. Hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Cut the bag into pieces and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the bag to any other parties that may use it as container for foodstuffs.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

For safety when spraying:

- Do not inhale the spray mist.
- Avoid contact with the spray as much as you can.
- Avoid spray drift onto other crops, grazing, rivers, dams and areas not under treatment.

For safety after spraying:

- Clean applicator after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Destroy empty container by perforation and flattening and dispose of it in a safe way.

Relevant hazardous components	
Chlorthal-dimethyl	750 g/kg

FIRST AID TREATMENT

Inhalation: Avoid breathing dust. Move to fresh air. Call a physician if symptoms develop or persist.

Skin: Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.

Eyes: Immediately flush eyes with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth. Get medical attention if symptoms occur. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Have person sip a glass of water if able to swallow.

RESISTANCE WARNING

DACTHAL® is a group code 3 herbicide. Any weed population may contain individuals naturally resistant to **DACTHAL®** and other group code 3 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **DACTHAL®** or any other group code 3 herbicide.

To delay herbicide resistance:

- avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide group codes,
- integrate other control methods (chemical, cultural, biological) into weed control programmes.

For specific information on resistance management contact the registration holder of this product.

Mode of Action:

DACTHAL® is a selective, non-systemic herbicide. It is applied pre-emergence to control annual grasses and some broad-leaved weeds. **DACTHAL®** acts by inhibiting microtubule polymerization thereby disrupting cell division.

DIRECTIONS FOR USE: Use only as indicated.**Application:**

- Mix the required amount of **DACTHAL®** in a small amount of water to make a smooth cream before diluting to the recommended amount. Ensure adequate agitation.
- Best results are obtained when **DACTHAL®** is applied to wet soil or washed into the soil with sprinkler irrigation.
- **DACTHAL®** controls a wide range of annual weeds by killing germinating seeds. It does not control established weeds and should be applied to a weed-free seedbed or land.
- Poor diseased seeds or seedlings may be adversely affected by **DACTHAL®**.
- Prior to **DACTHAL®** application, the soil should be newly cultivated to provide a weed-free and uniform surface without clods, since **DACTHAL®** is effective only when applied before weed seed germination occurs.
- **DACTHAL®** should be applied with a motorized spray pump with adequate and efficient agitation. Broadcast application is best achieved with 200 to 500 litres per hectare.
- Screens or strainers in spray equipment should not be finer than 50 mesh to prevent clogging.
- Spray equipment should be properly calibrated before application. A pressure of ± 200 kPa with boom type sprayers is recommended.
- Low temperatures may lead to failure of the product to perform satisfactorily.
- Applies according to directions and under conditions favourable for good plant growth **DACTHAL®** will not harm crops for which its use is recommended. However, conditions such as high salt concentration, seedling diseases, cold weather, deep planting, excessive moisture, or drought may injure or weaken crops normally tolerant to **DACTHAL®**, thereby increasing the possibility of herbicide damage. Under any of these conditions, one or more of the following may result: delayed crop development, reduced yields or reduced quality.

APPLICATION RATES

Crop	Soil Type	Dosage	Remarks
Apply either on wet soil, or if the soil is relatively dry, sprinkle irrigate (minimum of 12 mm to maximum of 25 mm) immediately after application.			
Onions Seedbed	0 to 10 % clay	8.0 kg / ha	Apply uniformly to the soil after the seed has been sown and covered.
	10 to 20 % clay	10.0 kg / ha	
Transplanted and bulb planted	> 20 % clay	12.0 kg / ha	Apply within one day of transplanting. DACTHAL® can be sprayed directly over the transplants without injury.
Gladioli (In the summer rainfall region) Corms or Cormels	0 to 10 % clay	8.0 kg / ha	Apply within one day after the corms or cormels have been planted and covered.
	10 to 20 % clay	10.0 kg / ha	
	> 20 % clay	12.0 kg / ha	
Strawberries Transplanted runners	0 to 10 % clay	8.0 kg / ha	Apply within one day after the runners have been planted. Initial stunting may occur, but plants will recover completely within 5 weeks after application.
	10 to 20 % clay	10.0 kg / ha	
	> 20 % clay	12.0 kg / ha	
Established plants			Apply directly over the plants on a weed free soil in the early spring. Field should be hoed to remove all growing weeds prior to DACTHAL® application.
Brassicaceae (Cabbage, cauliflower and Brussels sprouts in the summer rainfall region) Transplants	0 to 10 % clay	8.0 kg / ha	Apply within one day of transplanting. DACTHAL® can be sprayed directly over the transplants without injury.
	10 to 20 % clay	10.0 kg / ha	
	> 20 % clay	12.0 kg / ha	

WEEDS CONTROLLED	
Annual grasses:	
<i>Digitaria sanguinalis</i>	Crab fingergrass
<i>Eleusine indica</i>	Goose grass
<i>Eragrostis</i> sp.	Love grass
<i>Panicum schinzii</i>	Vlei Panicum
<i>Poa annua</i>	Winter grass
<i>Setaria verticillata</i>	Sticky bristle grass
<i>Tragus racemosus</i>	Large carrot-seed grass
<i>Urochloa panicoides</i>	Herringbone grass
Annual broadleaf weeds:	
<i>Amaranthus</i> sp. *	Pigweed
<i>Chenopodium</i> sp.	Goosefoot
<i>Euphorbia</i> sp. *	Milk weed
<i>Physalis angulata</i> *	Wild gooseberry
<i>Portulaca oleraceae</i>	Purslane
<i>Stellaria media</i>	Chickweed

* Require slightly higher rates under adverse climatic and soil conditions. Do not exceed 10 kg per hectare on light, 12 kg per hectare on medium and 14 kg per hectare on heavy soils.

Galinsoga (Gallant soldier) and other weeds in the Asteraceae (Compositae) family are generally not satisfactorily controlled.

DACTHAL® is a registered trademark of AMVAC Chemical Corporation, USA.