

HERBI-THAL 480 SC

Reg. No. L7676 Act No. 36 of 1947



HRAC HERBICIDE GROUP CODE K1

A pre-emergence suspension concentrate herbicide for the control of annual grasses and certain broadleaved weeds in crops as listed.

Active Ingredient

Chlorthal-dimethyl 480 g/l
(phthalic acid compound)

agchem 
formulating for tomorrow®

Rolfes
GROUP

Registered, Manufactured and Distributed by:

Ag-Chem Africa (Pty) Ltd (Reg. No. 1998/013411/07)

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SEE CONTAINER FOR BATCH DETAILS

COUNTRY OF ORIGIN: REPUBLIC OF SOUTH AFRICA

VERSION 1.1: 08/2016



CAUTION



SHAKE WELL Shake well before use • Store at room temperature
Keep out of direct sunlight • Keep container closed when not in use



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WARNINGS:

- Do **NOT** plant crops, other than those included on this label within 12 weeks of application.
- Store in a cool place away from food, feeds, fertilisers and other chemicals.
- Cause eye and skin irritation.
- Keep out of reach of children, uninformed persons and animals.
- Seller's guarantee shall be limited to the terms set out on the label and subject thereto; the buyer assumes the risks to persons or property arising from the use or handling of this product and accepts the product on that condition.
- Wash out the spray tank thoroughly after use.
- Do not graze on treated areas or feed plant parts to livestock.
- Replanting crops other than those included on this label, in **Herbi-Thal 480 SC** treated soil within 8 months of application, may result in crop injury. If replanting is required because of an early crop failure, the planting of onions, seeded melons, potatoes, tomatoes, eggplants or peppers at this time may result in crop injury. However, all crops on this label may be planted following harvest of a **Herbi-Thal 480 SC** treated crop.
- Applied according to directions and under conditions favourable for good plant growth **Herbi-Thal 480 SC** will not harm crops for which its use is recommended. However conditions such as high salt concentrations in the irrigation water or in the soil, seedling diseases, cold weather, cold soil conditions, deep planting, excessive moisture or drought may injure or weaken crops normally tolerant to **Herbi-Thal 480 SC**, thereby increasing the possibility of herbicide damage. Under any of these conditions, one or more of the following may result: crop seedlings dying off, delayed crop development, reduced yields or reduced quality.
- The tolerance of all species, cultivars or varieties has not been determined therefore it is advisable to test crop safety on a small area first with new varieties.
- **DO NOT** apply under weather conditions or with spraying equipment which may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.
- **GROUNDWATER ADVISORY:** Tetrachloroterephthalic acid, a breakdown product of **Herbi-Thal 480 SC**, is known to leach through soil as a result of agricultural and turf uses and has been found in groundwater which may be used for drinking water. Users of formulated products are advised not to apply **Herbi-Thal 480 SC** to sand and loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e., well drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater used for drinking water.

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 weeds against the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore 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 the event of any uncertainty.

PRECAUTIONS:

- Do not inhale spray mist.
- Wash with soap and water after use and accidental skin contact.
- Avoid contact with eyes.
- Do not eat, drink or smoke while mixing or applying.
- Avoid drift or spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use and dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container.
- Prevent contamination of food, feed, drinking water and eating utensils.

RESISTANCE WARNING:

For resistance management, **Herbi-Thal 480 SC** is a group code K1 herbicide. Any weed population may contain individuals naturally resistant to **Herbi-Thal 480 SC** and other group code K1 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **Herbi-Thal 480 SC** or any other group code K1 herbicide.

To prevent herbicide resistance:

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

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

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

- Since **Herbi-Thal 480 SC** is ONLY effective when applied before weed seed germination occurs, the soil should be NEWLY CULTIVATED prior to **Herbi-Thal 480 SC** application to provide a weed-free and uniform surface without clods.
- Best results are obtained when **Herbi-Thal 480 SC** is applied to WET SOIL or WASHED INTO THE SOIL with sprinkler irrigation immediately after application.
- The volume of irrigation water to be applied depends on the particular soil type and will have a direct effect on the efficacy of the product. Do not exceed 10 mm irrigation on light sandy soils, because leaching can occur resulting in poor control of germinating weeds. However, on heavy clay soils a maximum of 25 mm irrigation can be applied directly after application of **Herbi-Thal 480 SC**.
- **Herbi-Thal 480 SC** should be applied with a motorized spray pump with adequate and efficient agitation. Broadcast application is best achieved with 200 – 500 ℓ of water per hectare.
- 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.

RECOMMENDATIONS:

- **Herbi-Thal 480 SC** controls a wide range of annual weeds by killing germinating seeds.
- Poor, diseased seeds or seedlings may be adversely affected by **Herbi-Thal 480 SC**.

CROP	SOIL TYPE	RATE ℓ/ha	REMARKS
Onions Seeded	0 – 10 % clay	12,0	Apply uniformly to the soil after the seed has been sown and covered. See NOTE below.
	10 – 20 % clay	14,0	
	above 20 % clay	16,0	
Transplanted and bulb planted	0 – 10 % clay	12,0	Apply within one day of transplanting. Herbi-Thal 480 SC can be sprayed directly over the transplants without injury.
	10 – 20 % clay	14,0	
	above 20 % clay	16,0	
Lettuce Transplanted seedlings	0 – 10 % clay	12,0	Apply within one day of transplanting. Herbi-Thal 480 SC can be sprayed directly over the transplants without injury.
	10 – 20 % clay	14,0	
	above 20 % clay	16,0	
Cole crops (cabbage, cauliflower and Brussels sprouts) Transplanted seedlings	0 – 10 % clay	12,0	Summer rainfall area: Apply within one day of transplanting. Herbi-Thal 480 SC can be sprayed directly over the transplants without injury.
	10 – 20 % clay	14,0	
	above 20 % clay	16,0	

NOTE:**Direct seeded onions:**

The use of **Herbi-Thal 480 SC** under the following conditions may lead to thinning (reduced stand):

- If damping-off of seedlings occur.
- High temperatures.
- Shallow planting.
- Soils that tend to form clods.
- When buffering or acidifying products containing wetters or penetrators are used.

WEEDS CONTROLLED:**ANNUAL GRASSES:**

<i>Dactyloctenium aegyptium</i>	Crabfoot Grass
<i>Digitaria sanguinalis</i>	Crab Fingergrass
<i>Eleusine coracana</i>	Goose Grass
<i>Eragostis spp.</i>	Love Grass
<i>Panicum schinzii</i>	Vlei panicum
<i>Poa annua</i>	Annual Bluegrass
<i>Setaria verticillata</i>	Bur Bristlegrass
<i>Tragus racemosus</i>	Carrotseed Grass
<i>Urochloa panicoides</i>	Garden Urochloa

ANNUAL BROADLEAF WEEDS:

<i>Amaranthus spinosus</i>	Thorny Pigweed
<i>Chenopodium spp.</i>	Goosefoot
<i>Euphorbia spp.</i>	* Spurge
<i>Physalis angulata</i>	* Wild Gooseberry
<i>Portulaca oleracea</i>	Purslane
<i>Stellaria media</i>	Chickweed

* Require slightly higher rates under adverse climatic and soil conditions. However, do not exceed 14 ℓ/ha on light, 16 ℓ/ha on medium and 18 ℓ/ha on heavy soils. *Galinsoga* and other weeds in the *Compositae* family are generally not satisfactorily controlled.