

# Ag-Metribuzin

## 480 SC

Reg. No. L8063 Act No. 36 of 1947



HRAC HERBICIDE GROUP CODE C1

**A pre-and post emergence systemic herbicide for the control of annual grasses and broadleaved weeds in crops as listed**

### Active Ingredient

Metribuzin  
(triazine)

480 g/l

**agchem**  
formulating for tomorrow®

**Rolfes**  
GROUP

Registered, Manufactured and Distributed by:

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

P.O.Box 589, Silverton, 0127, Gauteng, RSA.

Tel: (012) 803-0145 • Fax: (012) 803-8418

[www.agchem.co.za](http://www.agchem.co.za)

SEE CONTAINER FOR BATCH DETAILS

COUNTRY OF ORIGIN: REPUBLIC OF SOUTH AFRICA

VERSION 1.2: 06/2017



HARMFUL



**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:

- Toxic to fish.
- Keep out of reach of children, uninformed persons and animals.
- Store in a cool place away from food and feeds.
- RE-ENTRY INTERVAL: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- AERIAL APPLICATION: Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

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 accidental skin contact.
- Do not eat, drink or smoke while mixing or applying.
- Avoid drift or spray onto other edible crops, grazing, rivers, dams or areas not under treatment.
- Clean applicator thoroughly before re-using with other pesticides 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 disposing of the container.
- Destroy empty container by perforation and flattening and do not re-use for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

#### RESISTANCE WARNING:

For resistance management, **AG-METRIBUZIN 480 SC** is a group code C1 herbicide. Any weed population may contain individuals naturally resistant to **AG-METRIBUZIN 480 SC** and other group code C1 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **AG-METRIBUZIN 480 SC** or any other group code C1 herbicide.

#### To prevent insecticide resistance:

- Avoid excessive 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 control programmes.

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

#### USE RESTRICTIONS:

- **Waiting periods:** (period between application of **AG-METRIBUZIN 480 SC** and planting of follow-up crops). Due to the residual activity of **AG-METRIBUZIN 480 SC**, the following waiting periods should be observed to prevent crop damage to follow-up crops:

Potatoes, Sugar cane	Nil
Asparagus, Beetroot, Carrots, Maize, Soy beans, Tomatoes	6 months
Beans, Cole crops, Cucurbits, Lettuce, Onions, Peas, Strawberries, Tobacco, Wheat	12 months
- Ensure thorough and deep ploughing (not less than 20 cm) prior to planting the follow-up crops, using a mouldboard or disc plough.
- **POTATOES:**
  - a) Potatoes might be prone to stunting if **AG-METRIBUZIN 480 SC** is applied to winter-grown potatoes, or when frost occurs early spring. Do not apply **AG-METRIBUZIN 480 SC** to potatoes between April to September. The degree of stunting depends on the cultivar, i.e. BP1, Astrid, Late Harvest, Earliest of All and Koos Smit is more prone to stunting than other cultivars.
  - b) Allow a period of at least 6 weeks from application to ridging of potatoes. Ridging too early (or any other disturbance of soil) after the application of **AG-METRIBUZIN 480 SC** may result in phytotoxicity, because **AG-METRIBUZIN 480 SC** may be more concentrated over the plant row.
- Do not use poor quality, diseased seed or seedlings, because it may lead to **AG-METRIBUZIN 480 SC** damage. For example, potato plants from seed of 60 g and smaller is more prone to damage.
- Avoid double spraying and excessive overlapping of spray swaths, because over-application, application at the incorrect growth stage, or any other use not in accordance with the directions on this label, may cause stunting of the crops and other adverse effects.
- **TOMATOES:**  
Do not apply **AG-METRIBUZIN 480 SC** under cold conditions, as stunting and leaf damage may occur.

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

#### COMPATIBILITY:

**AG-METRIBUZIN 480 SC** is compatible with **AG-DIURON 800 SC** and **SHINQUAT 200 SL**. However, it is advisable to do a miscibility test prior to mixing with other chemicals because the quality of the spray water can also affect compatibility. It is therefore important to carry out the compatibility test with the spray water to be used.

#### WEEDS CONTROLLED:

##### BROADLEAF WEEDS:

Blue weed  
Pigweed  
Cape Pigweed  
Thorny Pigweed  
Common Black Jack  
Daisy  
White goosefoot  
Nettle-leaved goosefoot  
Single leaf Cleome  
Wandering Jew  
Horseweed fleabane  
Thorn apple  
Fumitory  
Gallant soldier  
Jersey cudweed  
Wild gooseberry  
Prostrate knotweed  
Wild radish  
Tropical richardia  
Dwarf marigold  
Chickweed  
Khaki weed  
Dubbeltjie  
Spiny cocklebur

*Ageratum conyzoides*  
*Amaranthus deflexus*  
*Amaranthus hybridus*  
*Amaranthus spinosus*  
*Bidens pilosa*  
*Cenia turbinata*  
*Chenopodium album*  
*Chenopodium murale*  
*Cleome monophylla*  
*Commelina benghalensis*  
*Conyza canadensis*  
*Datura stramonium*  
*Fumaria muralis*  
*Galinsoya parviflora*  
*Gnaphalium luteo-album*  
*Physalis angulata*  
*Polygonum aviculare*  
*Raphanus raphanistrum*  
*Richardia brasiliensis*  
*Schkuhria pinnata*  
*Stellaria media*  
*Tagetes minuta*  
*Tribulus terrestris*  
*Xanthium spinosum*

##### GRASSES:

Feather-top chloris  
Love grass  
Buffalo grass  
Sweet buffalo grass  
Herringbone grass  
Yellow nutsedge

*Chloris virgata*  
*Eragrostis spp.*  
*\*Panicum maximum*  
*Panicum schinzii*  
*Urochloa panicoides*  
*\*Cyperus esculentus*

\* An application rate of 4,3 ℓ **AG-METRIBUZIN 480 SC** is required for sufficient control.

**AG-METRIBUZIN 480 SC** does not control *Cyperus rotundus* and *Solanum nigrum*.

Although **AG-METRIBUZIN 480 SC** may control other annual broadleaf weeds and grasses that were not present during the efficacy trials with this product, the registration holder does not accept responsibility for the control of broadleaf weeds and grasses not listed above.

#### NOTE:

Crop tolerance to **AG-METRIBUZIN 480 SC** as well as the efficacy thereof may be affected by climatic conditions. Consider the following, before applying

##### **AG-METRIBUZIN 480 SC:**

- If **AG-METRIBUZIN 480 SC** treated land is to be replanted with an alternative crop due to circumstances, see "**USE RESTRICTIONS**".
- It is important to ensure that tomato transplants have taken root before applying **AG-METRIBUZIN 480 SC**. **AG-METRIBUZIN 480 SC** will adversely affect newly planted, interplanted and weak plants. Allow at least two sunny days before **AG-METRIBUZIN 480 SC** application on tomatoes.
- Heavy rains after an **AG-METRIBUZIN 480 SC** application will cause a decrease in efficacy, due to leaching. Furthermore, the efficacy of **AG-METRIBUZIN 480 SC** will also be adversely affected by mulch or plant residues covering the soil.
- Do **NOT** mix with wetting agents, fertilizers or any other agrochemical products, except those mentioned on the label, in the spray tank.

#### MIXING INSTRUCTIONS:

Half fill the spray tank with clean water. Add the required quantity of **AG-METRIBUZIN 480 SC**. Fill spray tank to the required volume with clean water while agitating. Continue with agitation during spraying to keep **AG-METRIBUZIN 480 SC** in suspension. Tank mixtures **must** be sprayed out immediately and not allowed to stand in the spray tank overnight. Spraying equipment must be thoroughly flushed out at the end of the spraying operation.

Take the following steps when mixing **AG-METRIBUZIN 480 SC** with another herbicide:

- Make sure that the products are compatible in the water that will be used for spraying.
- When mixing **AG-METRIBUZIN 480 SC** with a wettable powder herbicide, such as Diuron, pre-mix the required amount of wettable powder and a little water until a smooth cream. Then pour it into the tank separately from **AG-METRIBUZIN 480 SC** while agitating.

**APPLICATION:**

- For the best results, apply **AG-METRIBUZIN 480 SC** to moist soil before weeds emerge, especially grasses, or at least when broadleaf weeds are not taller than 3 – 5 cm. Climatic conditions should be warm and optimal for weed growth. Depending on the soil type, rainfall and rate of application, **AG-METRIBUZIN 480 SC** should control weeds for a period of 8 – 16 weeks.
- Apply **AG-METRIBUZIN 480 SC** with a tractor-mounted boom sprayer or knapsack sprayer. Use Teejet-type flat fan nozzles, delivering 200 - 300 l spray solution per hectare at a pressure of 100 – 200 kPa.
- Apply **AG-METRIBUZIN 480 SC** in 30 – 40 l spray solution per hectare for aerial application. See tables below for dosage rate of **AG-METRIBUZIN 480 SC**. It is important to maintain thorough agitation of the spray mixture.
- Make sure that the application equipment is correctly calibrated and use only clean spray water. It is important to maintain thorough agitation of the spray mixture.
- For effective weed control apply **AG-METRIBUZIN 480 SC** evenly and uniformly over the area. Ensure that the soil is clod free, moist and of a fine texture.
- The soil type is determined by the clay, silt and organic matter content, and has an effect on the application rate of **AG-METRIBUZIN 480 SC**. Use the lower rate on lighter soils.

CROP	SOIL TYPE	DOSAGE RATE/ha	REMARKS
Potatoes	0 – 10 % clay 11 – 20 % clay 21 – 35 % clay	1,1 ℓ 1,5 ℓ 1,8 – 2,2 ℓ	<b>Do not use on potatoes in the Western Cape Sandveld region.</b> Apply as a pre-emergence application after planting until just before the potato crop emerges.
Sugarcane Pre-emergence application	6 – 20 % clay  21 – 35 % clay	3,6 – 4,3 ℓ OR 2,0 – 2,9 ℓ + 2,0 ℓ <b>AG-DIURON 800 SC</b>  4,3 ℓ OR 2,5 – 2,9 ℓ + 2,0 ℓ <b>AG-DIURON 800 SC</b>	<b>Do not apply on weak, sandy soils (&lt; 6 % clay).</b> For application on both plant and ratoon sugarcane. Apply after harvesting or planting. Ensure an even application to moist soil. Note: The higher dosage rates will only have a suppressing effect on <i>Cyperus esculentus</i> . In the presence of <i>Panicum maximum</i> , apply pre-emergence or very early post-emergence.
Sugarcane Early Post-emergence application	6 – 20 % clay  21 – 35 % clay	3,6 – 4,3 ℓ OR 2,0 – 2,9 ℓ + 2,0 ℓ <b>AG-DIURON 800 SC</b>  4,3 ℓ OR 2,5 – 2,9 ℓ + 2,0 ℓ <b>AG-DIURON 800 SC</b>	Apply very early post-emergence, i.e. before grass weeds have reached the 2 – 3 leaf stage (especially <i>P. maximum</i> ) and before broadleaf weeds have reached the 4 – 6 leaf stage. Apply the higher rates to control <i>Cyperus esculentus</i> . To increase the efficacy in plant cane add <b>Shinquat 200 SL</b> at the recommended rate to <b>AG-METRIBUZIN 480 SC + AG-DIURON 800 SC</b> combination. This combination is especially recommended where <i>P. maximum</i> is present or has developed past the 3-leaf stage, but is still in a stage prior to tillering.
Sugarcane Aerial application (Early Post-emergence)	6 – 35 % clay	3,6 ℓ + 2,5 ℓ <b>AG-DIURON 800 SC</b>	Apply in 30 – 40 ℓ spray solution per hectare. Ensure a uniform application. See Remarks under <b>Early Post-emergence</b> application above.
Tomatoes	0 – 10 % clay 11 – 20 % clay 21 – 35 % clay	1,1 ℓ 1,5 ℓ 1,8 – 2,2 ℓ	Apply 14 days after the tomato plants have been transplanted. The weeds present at time of application should not be taller than 3 – 5 cm, and grasses should preferably be at emergence. Apply as a directed spray between the rows.