



HERBICIDE

Bentazone 480 SL

Reg. No. L7720 Act No. 36 of 1947

HRAC HERBICIDE GROUP CODE C3

A water soluble concentrate, selective contact herbicide for use as a post-emergence treatment on annual and perennial weeds.

Active Ingredient:

Bendioxide (thiadiazine)

480 g/l

Rolfes 
Formulating Sustainable Growth **Agri**

Registered, Manufactured and Distributed by:

Rolfes Agri (Pty) Ltd.

(Reg. No. 1998/013411/07)

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IN CASE OF POISONING PLEASE PHONE 082 466 8946

UN NO.: 3082

SEE CONTAINER FOR BATCH DETAILS

COUNTRY OF ORIGIN: REPUBLIC OF SOUTH AFRICA

VERSION ROLFES AGR: 01/2020



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:

- Poisonous when swallowed.
- May cause skin or eye irritation.
- Store away from food, feed, fertilizers and other chemicals.
- Keep out of reach of children, uninformed persons and animals.
- The use of **BENTAZONE 480 SL** on leguminous crops, planted with an organophosphate insecticide granular formulation, is not recommended because crop damage may occur. Consult the supplier for advice.
- Planting any crop other than maize in the same season, on land treated with a mixture of **BENTAZONE 480 SL** and atrazine, can lead to crop injury. Read atrazine label for use restrictions.
- **RE-ENTRY INTERVAL:** Do not enter treated area until spray deposit has dried unless wearing protective clothing.

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 fumes or spray mist.
- Wash after accidental skin contact.
- Do not smoke, eat or drink during use or before washing hands and face or change of clothing.
- Avoid spray drift onto other susceptible crops, grazing, rivers, dams and areas not under treatment.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Rinse empty container three times with a volume of water equal to at least one tenth of that of the container and add the rinsings to the content of the spray tank before disposing of the container in the prescribed manner.
- Destroy empty container by perforation and flattening and do NOT use for any other purpose.

RESISTANCE WARNING:

For resistance management, **BENTAZONE 480 SL** is a group code C3 herbicide. Any weed population may contain individuals naturally resistant to **BENTAZONE 480 SL** and other group code C3 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **BENTAZONE 480 SL** or any other group code C3 herbicide.

To delay herbicide 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:

Under adverse conditions, e.g. drought, cold weather, dry windy conditions and low air humidity, **BENTAZONE 480 SL** will not control yellow nutsedge.

DIRECTIONS FOR USE: Use only as indicated.

- **BENTAZONE 480 SL** does NOT control grasses and Red nutsedge (*Cyperus rotundus*).
- If danger of frost is imminent and/or the crop is under cold stress, do NOT use **BENTAZONE 480 SL**.
- Apply **BENTAZONE 480 SL** to young and actively growing weeds, early post-emergence.
- Thorough wetting of the weeds is essential, because **BENTAZONE 480 SL** is a contact herbicide. The effect of **BENTAZONE 480 SL** may be cancelled out by rainfall or overhead irrigation within 8 hours after application.
- Use flat fan nozzle with a fine to medium droplet spectrum.
- Apply **BENTAZONE 480 SL** in a minimum of 300 l water per hectare.

RECOMMENDATIONS FOR BROADLEAF WEED CONTROL:

- Late germinating weeds and nutsedge tubers which have not germinated at the time of spraying will not be controlled, and require re-spraying.
- Good weed control will be obtained under warm and humid weather conditions. Drought conditions before, during and after application will lead to poor weed control.

RECOMMENDATIONS FOR YELLOW NUTSEGE CONTROL:

Favourable conditions before and during the time of spraying are of utmost importance for the control of germinated yellow nutsedge (*Cyperus esculentus*). These conditions include adequate soil moisture for optimum plant growth and warm, humid weather (relative humidity > 65 %). At the time of spraying the majority of yellow nutsedge plants should be beyond the 4-leaf stage. Apply a minimum of 3 l **BENTAZONE 480 SL** / ha in not less than 300 l water. Increase the rate to 4 l **BENTAZONE 480 SL** / ha on dense stands of nutsedge in potatoes, groundnuts, maize, and grain sorghum. In extreme cases the rate should be increased to 5 l / ha in a minimum of 500 l water / ha. It is advisable to add a surfactant/sticker such as **AQUA-WET**, under these conditions. It is also recommended to use hollow cone nozzles and a spray pressure of 500 kPa. The state of germination of yellow nutsedge, as well as the conditions prevailing before, during and after the spray operation as described above will determine the duration and degree of control. If a second flush of yellow nutsedge has to be controlled or if regrowth occurs, a second application of **BENTAZONE 480 SL** will be necessary.

Apply a mixture of 1 l **BENTAZONE 480 SL** in 100 l water (1 %) as spot treatments, if conditions are favourable as described above. Ensure thorough wetting of plants, but do not exceed the dosage rate per area, as recommended in the Application Tables.

Under less favourable conditions yellow nutsedge will only be suppressed and regrowth might occur. It is advisable to add an adjuvant such as **AQUA-WET** or **AQUA-STIC** under these conditions. Furthermore, a second application of **BENTAZONE 480 SL** 7 – 10 days later may be necessary.

| CROP | DOSAGE | REMARKS |
|---|--------------|---|
| Beans (Dry beans, green beans*) Refer to <u>USE RESTRICTIONS</u> Broadleaf weeds | 2 – 3 ℓ / ha | Use 2 ℓ per ha before beans have reached the second trifoliolate leaf stage. Thereafter up to 3 ℓ per ha may be applied. Do not spray before the first trifoliolate leaf is fully expanded. BENTAZONE 480 SL may cause transient scorch on beans that may continue with later applications, but will not negatively affect the yield. Note: * Green beans: In the inland regions and especially under weather conditions with very high sun intensity, green beans must NOT be sprayed with more than 2 ℓ BENTAZONE 480 SL per ha, as higher rates can cause crop damage. |
| Yellow nutsedge | 3 ℓ / ha | For further information see Recommendations for yellow nutsedge control . The rate of 3 ℓ per ha must not be exceeded as higher rates can cause crop damage. |
| Groundnuts Refer to <u>USE RESTRICTIONS</u> Broadleaf weeds | 2 – 3 ℓ / ha | Apply BENTAZONE 480 SL from the first trifoliolate leaf stage onwards. A second application may be made if problems with late germinating weeds are encountered. |
| Yellow nutsedge | 3 – 5 ℓ / ha | For further information see Recommendations for yellow nutsedge control . |
| Maize, Sorghum, Wheat and other small grain crops Broadleaf weeds | 2 – 3 ℓ / ha | BENTAZONE 480 SL may be sprayed on cereals at any stage of their development, provided that weed growth corresponds to the growth stage as listed in the <u>WEEDS CONTROLLED</u> table. |
| Yellow nutsedge | 3 – 5 ℓ / ha | For further information see Recommendations for yellow nutsedge control . |
| Peas Refer to <u>USE RESTRICTIONS</u> Broadleaf weeds | 2 – 3 ℓ / ha | BENTAZONE 480 SL may be applied to peas 50-150 mm high, provided that weed growth corresponds to the growth stage as listed in the <u>WEEDS CONTROLLED</u> table. Do not use BENTAZONE 480 SL on frost-damaged peas or if frost is expected. Also, do not spray if the plants are under stress as a result of cold or drought. Use no buffers, acidifiers or any other adjuvant. Only use one application. |
| Yellow nutsedge | 3 ℓ / ha | For further information see Recommendations for yellow nutsedge control . The rate of 3 ℓ per ha must not be exceeded as higher rates can cause crop damage. Do a leaf wax test with crystal violet dye before spraying, especially for small plants that have a thin wax layer on the leaves. |
| Potatoes Only cultivars Up-to-date, BP1 and Van der Plank Broadleaf weeds | 2 – 3 ℓ / ha | BENTAZONE 480 SL should be applied after the potatoes have fully emerged and a good stand of plants has been obtained, but before the flower bud-stage of the crop. BENTAZONE 480 SL will cause transient scorch on the leaves but this will not depress the yield. Do not apply on large potato plants as this will reduce weed control due to the shading effect. |
| Yellow nutsedge | 3 – 5 ℓ / ha | For further information see notes on Yellow nutsedge control . |
| Soyabeans Refer to <u>USE RESTRICTIONS</u> Broadleaf weeds | 2 – 3 ℓ / ha | Apply BENTAZONE 480 SL from the second trifoliolate leaf stage onwards. A second application may be made if problems with late germinating weeds are encountered. BENTAZONE 480 SL may cause transient scorch on beans that may continue with later applications, but will not negatively affect the yield. |
| Yellow nutsedge | 3 ℓ / ha | For further information see Recommendations for yellow nutsedge control . The rate of 3 ℓ per ha must not be exceeded as higher rates can cause crop damage. |

WEEDS CONTROLLED BY BENTAZONE 480 SL ONLY

| BOTANICAL NAME | COMMON NAME | LEAF STAGES | | | REMARKS |
|--------------------------------|--------------------------|-------------|----------|----------|-------------------|
| | | 1,5 ℓ / ha | 2 ℓ / ha | 3 ℓ / ha | |
| <i>Acanthospermum hispidum</i> | Upright starbur * | < 4 | 6 | 8 | |
| <i>Argemone subfusiformis</i> | Mexican poppy | - | 4 | 6 | |
| <i>Bidens pilosa</i> | Common blackjack * | < 4 | 4 | 6 | |
| <i>Chenopodium album</i> | White goosefoot | - | 2 | 4 | |
| <i>Cleome monophylla</i> | Single-leaved cleome | - | 4 | 6 | |
| <i>Commelina benghalensis</i> | Bengal wandering Jew | - | - | 4 | See NOTE . |
| <i>Datura stramonium</i> | Common thorn apple * | < 4 | 6 | 8 | |
| <i>Datura ferox</i> | Large thorn apple * | < 4 | 6 | 8 | |
| <i>Galinsoga parviflora</i> | Small-flowered quickweed | - | 4 | 6 | |
| <i>Hibiscus trionum</i> | Bladder hibiscus | - | 4 | 6 | |
| <i>Ipomoea purpurea</i> | Morning glory | - | - | 4 | |
| <i>Nicandra physaloides</i> | Apple of Peru * | < 4 | 4 | 6 | |
| <i>Portulaca oleracea</i> | Common purslane | - | 4 | 6 | |
| <i>Raphanus raphanistrum</i> | Wild radish | - | 4 | 6 | |
| <i>Ricardia brasiliensis</i> | Mexican richardia | - | - | 2 | See NOTE . |
| <i>Schkuhria pinnata</i> | Dwarf marigold | - | 2 | 4 | See NOTE . |
| <i>Senecio consanguineus</i> | Rag wort | - | 4 | 6 | |
| <i>Sida spinosa</i> | Sida | - | 4 | 6 | |
| <i>Tagetes minuta</i> | Tall khaki weed | - | 4 | 6 | |
| <i>Tribulus terrestris</i> | Common dubbeltjie | - | 2 | 4 | See NOTE . |
| <i>Xanthium strumarium</i> | Large cockle bur * | < 4 | 6 | 8 | |

If growing conditions are extremely favourable, only the weeds marked with (*) can be controlled effectively with a lower rate of 1,5 ℓ / ha **BENTAZONE 480 SL**, if they have not reached the 4-leaf stage.

NOTE:

The degree of control of these weeds can vary considerably according to local conditions. Improve control in maize and grain sorghum by adding atrazine to the spray mixture.

See **APPLICATION TABLE**.

APPLICATION TABLE (BENTAZONE 480 SL + atrazine 500 g/ℓ SC):

| CROP | SOIL TYPE | DOSAGE/HA | REMARKS |
|---|---------------------------------|--|---|
| Grain Sorghum Broadleaf weeds | Only on soils with > 16 % clay. | 2 ℓ BENTAZONE 480 SL + 2 ℓ atrazine 500 g/ℓ SC | Apply recommended mixture for better control of Pigweed, Mexican richardia, Dwarf marigold and Common dubbeltjie. Weeds must be at the 4-leaf stage. Refer to the WARNINGS and USE RESTRICTIONS on both labels. |
| Maize Broadleaf weeds | All types | 2 ℓ BENTAZONE 480 SL + 2 ℓ atrazine 500 g/ℓ SC | |

ADDITIONAL WEEDS CONTROLLED BY A TANK MIXTURE OF BENTAZONE 480 SL + ATRAZINE 500 g / ℓ SC

| ONLY MAIZE AND GRAIN SORGHUM | | DOSAGE 2 ℓ per ha + 2 ℓ per ha (BENTAZONE 480 SL + ATRAZINE 500 g / ℓ SC) |
|------------------------------|----------------|---|
| BOTANICAL NAME | COMMON NAME | LEAF STAGE |
| <i>Amaranthus deflexus</i> | Pigweed | 4 |
| <i>Amaranthus hybridus</i> | Cape pigweed | 4 |
| <i>Amaranthus spinosus</i> | Thorny pigweed | 4 |

AQUA-WET, Reg. No. L6204, Act No. 36 of 1947, Rolfes Agri (Pty) Ltd.

AQUA-STIC, Reg. No. L10440, Act No. 36 of 1947, Rolfes Agri (Pty) Ltd.