

TERBUTREX 500 SC




Reg. no. L7386 Act/Wet 36 of/van 1947

**READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

GROUP	5	HERBICIDE
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<p>A selective pre-emergence suspension concentrate herbicide for the control of broad leaf weeds in irrigated groundnuts and peas in the summer rainfall area.</p>	<p>'n Selektiewe vooropkom suspensie konsentraat onkruidodder vir die heheer van breëblaaronkruid in besproeide erte en grondbone in die somerreënvalgebied.</p>
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 <p>WARNING</p>	<p>Hazard statements Very toxic to aquatic life with long lasting effects.</p> <p>Precautionary statements Avoid release to the environment. Collect spillage.</p>
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ACTIVE INGREDIENT/AKTIEWE BESTANDEEL

Terbutryn (triazine)..... 500 g/LTerbutrien (triasien)

NET VOLUME/NETTO VOLUME

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REGISTRATION HOLDER/REGISTRASIEHOUER

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UN no.: 3082

EMERGENCY NUMBERS:

Griffon Poison Information Centre: +27 82 446 8946
Tygerberg Poison Information Centre: +27 861 555 777

Batch number
Date of Manufacture
Expiry date

Lotnommer
Datum van Vervaardiging
Vervaldatum

WARNINGS

- Very toxic to aquatic life with long lasting effects.
- Could be harmful if swallowed.
- Store in a cool, dry place away from food and feedstuffs.
- Aerial application: Notify all inhabitants of the immediate area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate adjacent areas or water.
- Re-entry: Do not enter the treated area until the spray has dried after application, 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 the 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, and 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 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

- If medical advice is needed, have product container or label at hand.
 - Keep out of reach of children.
 - Read label carefully and follow all instructions.
 - Avoid release to the environment – if this is not the intended use.
 - Collect spillage.
 - Dispose of contents/container to a licensed waste facility and in accordance with local and national regulatory requirements.
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- Do not inhale spray mist.
 - Avoid skin contact. Wash with water and soap after accidental skin contact.
 - Wash hands and face and contaminated clothing after use with soap and water.
 - Do not eat, drink or smoke when mixing or applying this product or before hands and face are washed.
 - Prevent spray to drift to other crops, pastures, rivers, dams or boreholes.
 - 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 empty container at least three

times with a volume of water equal to at least 10% of that of the container. Add the rinsing to the spray tank.

- Destroy the empty container by perforation and flattening it. Do not use the empty container for any other purpose.
- Clean the applicator thoroughly after use with water. Dispose of the rinsate where it will not contaminate crops, pastures, rivers, dams or boreholes.
- Prevent the contamination of food, feedstuffs, drinking water and eating utensils.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Terbutryn	30–60%	886-50-0
Monoethylene glycol	<10%	107-21-1

FIRST AID

Provide this label and SDS to medical personnel for treatment. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination.

Remove contaminated clothing and move the affected person away from the contamination area. Keep the person warm, calm, and comfortable. First Aid personnel should pay attention to their own safety.

Eye contact: Rinse/flush the eyes gently with water from the eye wash fountain for several minutes (at least 15 minutes), while holding the eyelids apart. Check for and remove contact lenses if easy to do so. Continue rinsing. Obtain medical attention if irritation occurs and persists.

Skin contact: Remove all contaminated clothing and shoes. Rinse the skin with plenty of water for 15 to 20 minutes under the safety shower. Wash contaminated clothing before re-use. Obtain medical attention if irritation occurs and persists.

Inhalation: Remove the affected victim from exposure to an area with fresh air. Keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion: Obtain medical attention or call a poison control centre for treatment advice. If conscious, rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsing person. Do not induce vomiting unless directed to do so by a medical professional. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits

TOXICOLOGICAL INFORMATION

Most important symptoms/effects, acute and delayed

None known for the product.

Terbutryn – systemic toxicity unlikely unless large amounts are ingested. Could cause eye or skin irritation in sensitive individuals. Skin irritation is possible after prolonged contact.

Exposure may affect the central nervous system causing incoordination, convulsions, or laboured breathing, nausea, diarrhoea, muscle spasms, ataxia, and anorexia.

Notes to physician

Treat symptomatically and supportively.

NOTICE TO THE USER: This agricultural remedy is to be used only according to the directions of this label. It is an offense under the Act to use this product inconsistent with the directions on the label.

RESISTANCE WARNING

For resistance management **TERBUTREX 500 SC** is a group code 5 herbicide. Any weed population may contain individuals resistant to **TERBUTREX 500 SC** and other group code 5 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **TERBUTREX 500 SC** or any other group code 5 herbicides. 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 codes.
- Integrate control methods (chemical, cultural and biological) into weed control programs.
- For specific information on resistance contact your local distributor.

MODE OF ACTION

5: Inhibition of photosynthesis at PSII – Serine 264 binders.

DIRECTIONS FOR USE

Use only as directed.

USE RESTRICTIONS

- **TERBUTREX 500 SC** is not recommended on gravelly soils as excessive leaching may occur on these soils which might lead to crop damage.
- A waiting period of three months must be observed after a **TERBUTREX 500 SC** application before a susceptible crop is planted.
- Crop seed should be planted at least 50 mm deep on soils with a clay content of less than 20% clay and 30 mm deep on heavier soils.
- If **TERBUTREX 500 SC** is used in a tank mixture with TYLLANEX® 500 SC or any other herbicide, the use restrictions of the other herbicide must be observed.

Compatibility

The compatibility of **TERBUTREX 500 SC** with other products can be influenced by the formulation of those products and the quality of the water. As the formulations of products can change without the previous knowledge of ADAMA South Africa (Pty) Ltd. and the water quality can vary from farm to farm it is advisable to do a physical compatibility test before application takes place. **TERBUTREX 500 SC** is compatible with metolachlor 90 EC and TYLLANEX® 500 SC.

Mixing instructions

Fill the spray tank half with water. Add the required volume of **TERBUTREX 500 SC** while the mixture is agitated. Fill the tank with water to the desired volume while continuously agitating. Continuous agitation is important during mixing and application. The spray mixture must be sprayed out the same day and not allowed to stand overnight. When **TERBUTREX 500 SC** is tank mixed with other products, first mix these products separately with water before it is added to the spray tank.

APPLICATION

General

TERBUTREX 500 SC must be applied preferably at planting but not later than 3 days after planting on a weed free, fine even and firm seedbed. Application must be followed by a light irrigation (10–20 mm) or continuous rain to leach the herbicide in the soil. Should a crust form on the soil surface it can be broken up by a light cultivation with a rotary hoe.

Ground application

TERBUTREX 500 SC can be applied by any medium or high-volume sprayer provided it is calibrated correctly and is equipped with an efficient agitation system. The sprayer should be fitted with flat fan nozzles which are able to distribute the spray mixture evenly over the target area. It is recommended to apply the recommended rate of **TERBUTREX 500 SC** in 200 L water/ha.

Aerial application

Aerial application of **TERBUTREX 500 SC** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS 10118 (The aerial application of pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- Volume: A spray mixture volume of at least 30 L/ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot be held responsible for any adverse effects if this product is applied aurally at a lower volume rate than recommended above.
- Droplet coverage: 30–40 droplets/cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 350–400 microns is recommended. Limit the production of fine droplets less than 150 micron to a minimum.
- Flying height: Maintain the height of the spray boom at 3–4 meter above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable atomizing equipment that will produce the desired droplet size and coverage, but which will ensure minimum loss of the product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomizers within the inner 60–75% of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers of a whirling hygrometer, should not exceed 8 °C.
- Stop spraying if the wind speed exceeds 15 km/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.

- Spraying under temperature inversion conditions (spraying in or above inversion layer) and/or high humidity conditions (relative humidity 80% or more) may lead to the following:
 - a) Reduce efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage of target).
 - b) Damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target.
- Ensure that the Aerial Spray Operator knows exactly which fields to spray.
- Obtain an assurance from the Aerial Spray Operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

APPLICATION RATES

Groundnuts

To be used only in combination with metolachlor 90 EC.

SOIL CLAY %	TERBUTREX 500 SC L/ha	metolachlor 90 EC L/ha
0–10	2,0	1,5
11–20	2,5	1,5
21–30	3,0	1,5
31–40	4,0	1,5

Peas

SOIL CLAY %	TERBUTREX 500 SC L/ha
0–10	2,0
11–20	2,5
21–30	3,0
31–40	4,0

TERBUTREX 500 SC and TYLLANEX® 500 SC can also be applied in a tank mixture immediately after planting. Consult the TYLLANEX® 500 SC label for the applicable **TERBUTREX 500 SC** and TYLLANEX® 500 SC dosage rates. The **TERBUTREX 500 SC** or the **TERBUTREX 500 SC** and TYLLANEX® 500 SC tank mixture application can be followed by a post-emergence PROMETREX® 500 SC application when weeds are in the true 2–4 leaf stage, but not later than the true 6-leaf stage of the peas.

WEEDS CONTROLLED

The following weeds are normally controlled by **TERBUTREX 500 SC**

Botanical Name	Common Name
<i>Acanthospermum australe</i> *	eight-seeded prostrate starbur
<i>Acanthospermum glabratum</i> *	five-seeded prostrate starbur
<i>Amaranthus hybridus</i>	common pigweed
<i>Amaranthus spinosus</i>	thorny pigweed
<i>Amaranthus thunbergii</i>	red pigweed
<i>Argemone ochroleuca</i>	mexican poppy
<i>Chenopodium album</i>	white goosefoot
<i>Chenopodium carinatum</i> *	green goosefoot
<i>Cleome monophylla</i>	spindlepod
<i>Datura ferox</i> *	large thorn apple
<i>Emex australis</i> **	spiny Emex
<i>Fallopia convolvulus</i>	climbing knotweed
<i>Flaveria bidentis</i>	smelters bush
<i>Fumaria muralis</i> **	fumitory
<i>Galinsoga parviflora</i>	gallant soldier
<i>Nicandra physaloides</i> *	apple of Peru
<i>Polygonum aviculare</i>	prostrate knotweed
<i>Portulaca oleracea</i>	purslane
<i>Tagetes minuta</i> *	khaki weed
<i>Schkuhria pinnata</i>	dwarf marigold
<i>Sonchus oleraceus</i>	sow thistle
<i>Solanum nigrum</i> *	black nightshade
<i>Spergula arvensis</i> **	corn spurry
<i>Stellaria media</i> **	chickweed

* These weeds will only be controlled if **TERBUTREX 500 SC** is used in a tank mix with metolachlor 90 EC. *Datura ferox*, *Schkuhria pinnata* and *Tagetes minuta* might not always be controlled very well by **TERBUTREX® 500 SC**. When metolachlor 90 EC is used in combination with **TERBUTREX 500 SC** the weeds that appear on the metolachlor 90 EC label will also be controlled by the tank mix.

** These weeds will only be controlled if **TERBUTREX 500 SC** is used in a tank mix with **TYLLANEX® 500 SC**.

PROMETREX® and **TYLLANEX®** is the registered trademark of a company of the **ADAMA** group.