

TYLLANEX 500 SC

Reg. no. L6295 Act/Wet 36 of/van 1947
N-AR 0496



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

GROUP	5	HERBICIDE
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A suspension concentrate pre-emergence herbicide for the control of a variety of annual broadleaf weeds and certain grasses in apples, citrus, grapevines, maize and peas (in combination with TERBUTREX 500 SC) as well as for industrial use on non-crop areas and industrial sites in combination with SIMANEX® 500 SC .	'n Suspensiekonsentraat vooropkomsonkruid-doder vir die beheer van 'n verskeidenheid breëblaaronkruid en sommige grasse in appels, sitrus, wingerde, mielies en ertjies (in kombinasie met TERBUTREX 500 SC), asook vir industriële gebruik in onbeboude en industriële gebiede in kombinasie met SIMANEX® 500 SC .
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 <p>WARNING</p>	<p>Hazard statements Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.</p> <p>Precautionary statements Do not breathe dust/fume/gas/mist/vapours/spray. Avoid release to the environment.</p>
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

Terbutylazine (triazine)..... 500 g/LTerbutilasien (triasien)

NET VOLUME/NETTO VOLUME

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REGISTRATION HOLDER/REGISTRASIEHOUER

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IN CASE OF POISONING, CALL THE FOLLOWING NUMBERS:

Griffon Poison Information Centre:

+27 82 446 8946 or

Tygerberg Poison Information Centre:

+27 861 555 777

EMERGENCY NUMBER:

SPILL TECH: +27 86 100 6366 or +27 83 253 6618

UN no.: 3082

Batch number
Date of Manufacture
Expiry date

Lotnommer
Datum van Vervaardiging
Vervaldatum



GHS information

WARNINGS

- Harmful if swallowed.
- May cause damage to organs through prolonged or repeated exposure.
- Very toxic to aquatic life with long lasting effects.

- Store in a cool place away from food, feedstuffs, seed and other agricultural products.
- Store 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 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 humans or animals 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 before use.
- Do not breath dust/fume/gas/mist/vapours/spray.
- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Get medical help if you feel unwell.
- Avoid release to the environment.
- IF SWALLOWED: Get medical help. Rinse mouth.
- Collect spillage.
- Dispose of contents/ container to an approved waste disposal plant.

- Wear eye protection and gloves when handling the concentrate.
- Wash self as well as contaminated clothes with soap and water after use.
- Avoid spray drift to other crops, grazing, rivers, dams and areas not under treatment.
- Clean application equipment after use. Rinse water should not be allowed to contaminate crops, grazing, rivers or dams.

- **TRIPLE RINSE THE CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank.
- Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za).
- Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Terbutylazine	30 – 60%	5915-41-3
Ethane-1,2-diol	<10%	107-21-1
Poly(oxy-1,2-ethanediyl),.alpha.-[tris(1-phenylethyl)phenyl]-.omega.-hydroxy-	<10%	99734-09-5

FIRST AID

In case of accident or unwellness, seek medical advice immediately. Provide this label and SDS to medical personnel for treatment. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination.

Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and covered up. First Aid personnel should pay attention to their own safety.

Take the container label or product name with you when seeking medical attention.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Ingestion: If conscious, rinse mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious or convulsing person. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. Get medical attention immediately if symptoms occur.



TOXICOLOGICAL INFORMATION

Antidotes

No specific antidote. Treat symptomatically.

Symptoms of human poisoning

None known.

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 **TYLLANEX 500 SC** is classified as a group 5 herbicide. Any weed population may contain individuals naturally resistant to **TYLLANEX 500 SC** and other group 5 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. The resistant weeds may not be controlled by **TYLLANEX 500 SC** or any other group 5 herbicide.

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group. Alternate or tank mix with products from different herbicide groups.
- For tank mixing or alternation with products in other herbicide groups, refer to applicable product labels.
- Integrate control methods (chemical, cultural and biological) into weed control programs.

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

Should **TYLLANEX 500 SC** fail to control resistant weeds, ADAMA South Africa (Pty.) Ltd. will not accept responsibility for such loss as the detection of resistant weeds before application is difficult. Avoid using **TYLLANEX 500 SC** in places where weed resistance has been ascertained.

MODE OF ACTION

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

USE RESTRICTIONS

- Do not apply **TYLLANEX 500 SC** on stone fruit or pears.
- Do not apply **TYLLANEX 500 SC** on apples, grapevines or citrus within one year of planting out. Avoid application to young implants in established vineyards and orchards.
- Do not apply **TYLLANEX 500 SC** on apples, grapevines or citrus that are suffering from trace element deficiencies or growing on brack soils.
- DO NOT APPLY **TYLLANEX 500 SC** TO ALKALINE SOILS OR SOILS THAT ARE SUSCEPTIBLE TO WATER LOGGING.



- If **TYLLANEX 500 SC** is used in a mixture with **GLYPHOGAN® 360 SL**, **TERBUTREX 500 SC**, and **SIMANEX® 500 SC** or any other herbicide, the use restrictions of the other herbicide must be observed.

Waiting period for follow on crops if the recommended rate is not exceeded:

Maize, grain sorghum	None
Cereals, ground nuts, potatoes, soybeans, sunflower	9 months
All other crops	18 months

DIRECTIONS FOR USE

Use only as directed.

Compatibility

TYLLANEX 500 SC is compatible with **GLYPHOGAN® 360 SL** (Reg. No. L10721), **TERBUTREX 500 SC** (Reg. No. L7386), and **SIMANEX® 500 SC** (Reg. No. L5335). The compatibility of **TYLLANEX 500 SC** with other products can, however, be affected by the formulation of the specific product as well as water quality. Considering that formulations of other products can change without the knowledge of the registration holder and because water quality can differ from farm to farm, the registration holder cannot accept any responsibility for the compatibility of **TYLLANEX 500 SC** with other products. It is therefore recommended that a compatibility test be done before application.

Mixing instructions

- Shake thoroughly before use. Replace screw cap after use.
- Half fill the spray tank with water and start agitation.
- Add the required amount of **TYLLANEX 500 SC** through a 50 mesh sieve.
- Top up tank until the required volume is reached.
- Ensure that the mixture is agitated continuously while filling the tank.
- When **TYLLANEX 500 SC** is used in a tank mixture with **GLYPHOGAN® 360 SL** the **TYLLANEX 500 SC** should be added to the spray tank last.
- When **TYLLANEX 500 SC** is used in a tank mixture with **TERBUTRE 500 SC** or **SIMANEX® 500 SC**, mix the **TERBUTREX® 500 SC** or **SIMANEX® 500 SC** separately with water before adding to the spray tank.
- Ensure that the mixture is agitated continuously during filling and application.

Application

TYLLANEX 500 SC can be applied through any medium or high-volume spray applicator that has efficient agitation. Care must be taken to ensure even application of the herbicide on the target area. Best results are usually obtained by the use of flat fan nozzles and a spray volume of at least 200 L/ha.

TYLLANEX 500 SC is taken up mainly by roots of weed seedlings and it has little or no effect on established weeds. Where weeds have already emerged, they should be controlled by cultivation or by application of a suitable post-emergence herbicide. Where such weeds are still relatively small or where the weed stand is sparse **TYLLANEX 500 SC** can be applied in a tank mixture with the post-emergence herbicide (provided they are compatible) to reduce application costs. Where the weed stand is dense this might prevent penetration of **TYLLANEX 500 SC** to the soil surface. These weeds should first be controlled by an application of a post-emergence herbicide before **TYLLANEX 500 SC** is applied.

APPLICATION RATES

A) AGRICULTURAL USE

Apples, grapevines and citrus

CROP AND TARGET	TYLLANEX 500 SC DOSAGE/HA	APPLICATION TIMING
Dry land and irrigated bush vines	3.5 L	Before budburst
Irrigated trellised vines	3.5 L	Early spring
Apples	3.5 L	During spring
Citrus	3.5 L	During spring

Where band applications to the row only are being made, the amount of **TYLLANEX 500 SC** applied per hectare should be reduced accordingly.

TYLLANEX 500 SC can be mixed with **SIMANEX® 500 SC** in apples, citrus and grapevines to improve the residual effect on grass weeds. Use an application rate of 2.7 L/ha **TYLLANEX 500 SC** plus 2 L/ha **SIMANEX® 500 SC** on soils with less than 15% clay and 2.7 L/ha **TYLLANEX 500 SC** plus 3 L/ha **SIMANEX® 500 SC** on soils with a clay content of more than 15% clay.

Maize

Post emergence

TYLLANEX 500 SC can be applied post emergence of maize for the control of broadleaf weeds, as a follow-up to a pre-emergence application of **ACETOGAN® PLUS** or **ALANEX® 480 CS**. The broadleaf weeds should be in the 2- to 4-true leaf stage at application. Ensure thorough coverage of the weeds. Depending on the height of the maize plants at application, use drop-arms if necessary to prevent maize plants from screening off the spray mixture. When maize plants are taller than 40 cm, a directed spray should be applied to ensure proper coverage of the weeds.

Apply **TYLLANEX 500 SC** to all soil types at a rate of 2.0 L/ha, adding 0.5 % MCW EOS as an adjuvant.

Peas

To be used in combination with **TERBUTREX 500 SC** followed by a post-emergence application of **PROMETREX® 500 SC**.

SOIL TYPE	CLAY (%)	TYLLANEX 500 SC plus TERBUTREX 500 SC	REMARKS
Sand to sandy loam	0–20	TYLLANEX 500 SC 825 ml/ha plus TERBUTREX 500 SC 1925 ml/ha	Apply TYLLANEX 500 SC and TERBUTREX 500 SC tank mixture pre-emergence immediately after planting. Follow up where necessary with a post-emergence PROMETREX® 500 SC application when weeds are in the true 2–4 leaf stage. PROMETREX® 500 SC should not be applied later than the true 6-leaf stage of peas. Refer to the PROMETREX® 500 SC label for more details.
Sandy clay loam	21–35	TYLLANEX 500 SC 900 ml/ha plus TERBUTREX 500 SC 2 100 ml/ha	

B) INDUSTRIAL USE IN COMBINATION WITH SIMANEX® 500 SC

TYLLANEX 500 SC can be used in combination with **SIMANEX® 500 SC** and **GLYPHOGAN® 360 SL** on industrial sites for long lasting control of weeds.

The combination of **TYLLANEX 500 SC** and **SIMANEX® 500 SC** should be applied pre-emergence of weeds on a weed free soil surface. Should established weeds be present at time of application an appropriate herbicide, for example **GLYPHOGAN® 360 SL**, should be used before, after or in combination with the **TYLLANEX 500 SC/SIMANEX® 500 SC** tank mixture. Consult the label of the product used to establish the dosage rate.

Application can be done by means of knapsack sprayers, tractor operated boom sprayers or by handheld spray guns. The sprayer must be calibrated correctly and must be able to distribute the spray mixture evenly over the target area. A minimum of 200 L spray mixture per hectare should be applied.

Industrial sites and non-crop areas

CLAY (%)	DOSAGE PER HA	REMARKS
5–20	Summer rainfall areas TYLLANEX 500 SC 8–10 L plus SIMANEX® 500 SC 8–10 L	In areas of high rainfall (exceeding 800 mm) the higher dosage should be used.
21–30	TYLLANEX 500 SC 10–12.5 L plus SIMANEX® 500 SC 10–12.5 L	

CLAY (%)	DOSAGE PER HA	REMARKS
31–40	TYLLANEX 500 SC 12.5–15 L plus SIMANEX® 500 SC 12.5–15 L	
All clay percentages	Winter rainfall area TYLLANEX 500 SC 7.5–10 L plus SIMANEX® 500 SC 7.5–10 L	In areas of high rainfall (exceeding 800 mm) the higher dosage rate should be used.
	Ash base soils and coal dust areas TYLLANEX 500 SC 15 L plus SIMANEX® 500 SC 15 L And when required followed by: TYLLANEX 500 SC 6 L plus SIMANEX® 500 SC 6 L	

NOTE: Use of combination along kerb sides and verges in urban areas.

A dosage rate of 8.0 L **TYLLANEX 500 SC** and 8.0 L **SIMANEX® 500 SC** per hectare must not be exceeded on streets lined with trees or hedges. Do not treat a strip wider than 500 mm under trees along the verge line. To prevent possible injury from root uptake the entire area under drip line of trees must not be treated.

Weeds growing from rhizomes or rootstocks will not be controlled by this treatment. A suitable herbicide must be used to control these weeds.

WEEDS CONTROLLED

The following weeds are normally controlled by **TYLLANEX 500 SC** at application rates and under application conditions as indicated below.

BROADLEAF WEEDS

Botanical Name	Common Name
<i>Amaranthys hybridus</i>	common pigweed
<i>Amaranthus thunbergii</i>	red pigweed
<i>Bidens bipinnata</i>	spanish blackjack
<i>Bidens pilosa</i>	blackjack

Botanical Name	Common Name
<i>Chenopodium album</i>	white goosefoot
<i>Chenopodium carinatum</i>	green goosefoot
<i>Commelina benghalensis</i> (suppression ONLY)	Benghal wandering Jew
<i>Conyza albida</i>	tall fleabane
<i>Datura ferox</i>	large thorn apple
<i>Emex australis</i> *	spiny Emex
<i>Fumaria muralis</i> *	fumitory
<i>Galingsoga parviflora</i>	Gallant soldier
<i>Gisekia pharnaceoides</i>	Gisekia
<i>Medicago polymorpha</i>	bur clover
<i>Oenothera stricta</i>	evening primrose
<i>Oxalis pes-caprae</i>	yellow sorrel
<i>Portulaca oleracea</i>	purslane
<i>Raphanus raphanistrum</i>	wild radish
<i>Schkuhria pinnata</i>	dwarf marigold
<i>Spergula arvensis</i> *	corn spurry
<i>Stellaria media</i>	chickweed
<i>Tagetes minuta</i>	khaki weed
<i>Tribulus terrestris</i>	devil's thorn
<i>Xanthium strumarium</i>	large cocklebur

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

GRASS WEEDS

Botanical Name	Common Name
<i>Bromus catharticus</i>	rescue grass
<i>Digitaria sanguinalis</i>	crab fingergrass
<i>Lolium temulentum</i>	darnel (ryegrass)

TYLLANEX 500 SC does not control established weeds or weeds that reproduce by underground vegetative organs such as stolons or rhizomes.

The level of control and length of soil persistence depend on weed species, weed size, conditions at and after time of application, rainfall and soil organic matter content. Heavy rainfall or irrigation on light soils will reduce the length of residual control of **TYLLANEX 500 SC**.

The following products are the registered trademarks or trademark of the ADAMA GROUP:

GLYPHOGAN® - GLYPHOGAN® 360 SL (Reg. No. L10721)

SIMANEX® - SIMANEX® 500 SC (Reg. No. L5335)

PROMETREX® - PROMETREX® 500 SC (Reg. No. L8858)

TERBUTREX - TERBUTREX 500 SC (Reg. No. L7386)