



TERBUTHYLAZINE 500 SC

Reg. No.: L7200 Act /Wet No. 36 of/van 1947

**READ ATTACHED PACKAGED LEAFLET BEFORE USE
AND
KEEP OUT OF REACH OF CHILDREN AND ANIMALS.**

HRAC HERBICIDE GROUP CODE:	5	HRAC ONKRUIDDODERGROEP KODE:
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A suspension concentrate pre-emergence and post-emergence herbicide for the control of a broad spectrum of annual weeds in apples, vines, citrus and maize as well as for the prevention of weed growth on industrial sites and other non-crop areas.

'n Suspensie konsentraat voor en na-opkom onkruidodder vir die beheer van 'n breë spectrum eenjarige onkruid in appels, wingerd, sitrus en mielies asook vir die voorkoming van onkruidgroei op industrieële en ongeboorde gebiede.



GHS07

GHS08

GHS09

WARNING

Hazard statements

Harmful if swallowed.
May be harmful in contact with the skin.
Causes skin irritation.
Causes serious eye irritation.
May cause allergic skin reaction.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Do not handle until all safety precautions have been read and understood.
Avoid release to the environment.

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Terbuthylazine/Terbutilasien (triazine/triasien).....488 g/l
Other triazines/Ander triasiene12 g/l

Registration holder /Registrasiehouer:

UPL South Africa (Pty) Ltd

Co. Reg. No./Mpy. Reg. Nr.: 2009/019713/07
7 Sunbury Office Park,
Off Douglas Saunders Drive, La Lucia Ridge,
South Africa, 4019
Tel: 031 514 5600

Batch No.
Date of Manufacture.....
Expiry date (< 2 years)....



.....Lot Nr.
Datum van Vervaardiging
(<2 jr)...Vervaldatum

U.N. No. / VN Nr: 3082
Emergency number

: Griffon Poison Information Centre: 082 4468946,
Poisons Information Helpline: 0861 555 777,
In case of Spillage: Spill Tech: 086 100 0366 / 083 253 6618

WARNINGS:

H302 – Harmful if swallowed.
H313 – May be harmful in contact with the skin.
H315 – Causes skin irritation.
H317 – May cause allergic skin reaction.
H319 – Causes serious eye irritation.
H373 – May cause damage to organs through prolonged or repeated exposure.
H400 – Very toxic to aquatic life.
H410 – Very toxic to aquatic life with long lasting effects.

- Store in a cool, dry place.
- Store away from food, feeds and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.
- In case of poisoning call a physician and make this label available to him/her.

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 the 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:

P101 – If medical advice is needed, have product container or label at hand.
P102 – Keep out of reach of children.
P103 – Read carefully and follow all instructions.
P261 - Avoid breathing fume/mist/vapours/spray.
P264+P265 – Wash hands thoroughly after handling. Do not touch eyes.
P270 – Do not eat, drink or smoke when using this product.
P272 – Contaminated work clothing should not be allowed out of workplace.
P273 – Avoid release to the environment if this is not the intended use.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P317 – IF SWALLOWED: Get medical help.
P302+P317 – IF ON SKIN: Get medical help.
P302+P352 – IF ON SKIN: Wash with plenty of water.
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P319 – Get medical help if you feel unwell.
P321 - Specific treatment (see first aid treatment on this label).
P330 – Rinse mouth.
P332+P317 – If skin irritation occurs: Get medical help.
P337+P317 - If eye irritation persists: Get medical help.
P362+P364 – Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

- Wash contaminated clothing after use.
- Wash with soap and water after use.

- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator before using with other materials. Dispose of wash water where it will not contaminate food, grazing, rivers or dams.
- **TRIPLE RINSE** empty containers in the following manner. 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 in the prescribed manner.
- Destroy empty container by perforation and flattening and dispose of it in a safe way.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RELEVANT SUBSTANCES:

Terbuthylazine	≥ 50%
Monoethylene glycol	<5%
Amine salt of polyarylphenyl ether phosphate	<5%
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	<3%

FIRST AID:

The acute toxicity of these herbicides for man is very low, and no adverse health effects from exposure to this combination herbicide have been reported. Symptoms of poisoning includes abdominal pain, diarrhea and vomiting, eye irritation, irritation of mucous membranes and skin reactions.

Inhalation:

If vapours or mists have been inhaled and irritation has developed, remove the source of contamination or move victim to fresh air. The patient should be kept under observation and obtain medical attention if irritation persists.

Skin contact:

Remove contaminated clothing, shoes and leather goods immediately. Gently wipe off excess chemical. Wash skin gently and thoroughly with non-abrasive soap and large amounts of water until no evidence of chemical remains (approximately 15 to 20 minutes). If irritation persists, seek medical advice immediately. Persons who become sensitized may require specialized medical management with anti-inflammatory agents.

Eye contact:

Immediately flush contaminated eyes with gently flowing clean water for 20 minutes, occasionally lifting upper and lower lids until no evidence of chemical remains (approximately 15 to 20 minutes). Obtain medical attention if irritation persists.

Ingestion:

If swallowed seek medical advice immediately and show the container, label, or this Data Sheet, if possible. DO NOT induce vomiting. Put the patient in the half up-right position and give plenty of water.

Advice to physician:

No specific antidote is available. Treat symptomatically and supportively when required. If large amounts have been ingested, perform gastric lavage and administer activated charcoal.

RESISTANCE WARNING:

TERBUTHYLAZINE is a group code **5** herbicide (triazine). Any weed population may contain individual weeds naturally resistant to **TERBUTHYLAZINE** and other group code **5** herbicides. Resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. Resistant weeds may not be controlled by **TERBUTHYLAZINE** or any other group code **5** herbicide.

In order to delay herbicide resistance:

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

For more information on resistance management, contact the registration holder.

RESTRICTIONS OF USE:

- Do not apply **TERBUTHYLAZINE** to pear or stone fruit trees.
- Do not apply **TERBUTHYLAZINE** to vines, citrus or apple trees within one year after transplanting. Avoid treatment of young interplants in established vineyards and orchards.
- Do not apply **TERBUTHYLAZINE** to vines, apple and citrus experiencing trace element deficiencies or those growing in brackish soil conditions.
- DO NOT APPLY **TERBUTHYLAZINE** TO ALKALINE SOILS AND/OR SHALLOW SOILS THAT ARE SUBJECT TO WATERLOGGING.
- **TERBUTHYLAZINE** has a relatively long residual activity in the soil and susceptible crops such as winter cereals, legumes, vegetables, etc., should not be planted within 18 months of the soils being treated with **TERBUTHYLAZINE**.
- If **TERBUTHYLAZINE** is used in a tank mix with GLYPHOSATE or SIMAZINE formulations or any other herbicide, adhere to the restrictions applying to those herbicides.

WEEDS CONTROLLED:

<i>Acanthospermum australe</i>	eight-seeded prostrate starbur
<i>Acanthospermum glabratum</i>	five-seeded prostrate starbur
<i>Amaranthus hybridus</i>	common pigweed
<i>Amaranthus thunbergii</i>	red pigweed
<i>Bidens bipinnata</i>	Spanish blackjack
<i>Bidens pilosa</i>	blackjack
<i>Chenopodium album</i>	white goosefoot
<i>Chenopodium carinatum</i>	green goosefoot
<i>Galinsoga parviflora</i>	gallant soldier
<i>Gisekia pharnaceoides</i>	Gisekia
<i>Hibiscus trionum</i>	Bladderweed
<i>Nicandra physaloides</i>	Apple of Peru
<i>Oenothera stricta</i>	Evening primrose
<i>Physalis angulata</i>	wild gooseberry
<i>Portulaca oleracea</i>	puslane
<i>Schkuhria pinnata</i>	dwarf marigold
<i>Tagetes minuta</i>	khaki weed

TERBUTHYLAZINE does not control established weeds or weeds that develop from underground vegetative material such as rootstocks.

The degree of control and duration of effect depends on weed species, weed size, growing conditions at and following the period of application, rainfall and soil organic matter content.

DIRECTIONS FOR USE: (Use only as directed)

COMPATIBILITY:

TERBUTHYLAZINE is known to be compatible with GLYPHOSATE and SIMAZINE formulations. Note, however, that the formulation type of such products as well as the quality of the spray-water can affect the compatibility of **TERBUTHYLAZINE** with other products. The registration holder does not accept responsibility for the compatibility of **TERBUTHYLAZINE** with other products since the formulation of other products can be altered without the knowledge of the registration holder and the quality of water can vary from farm to farm. For this reason it is recommended that a compatibility test be carried out prior to application.

MIXING INSTRUCTIONS:

Shake well before use. Replace screw cap after use.

Half-fill the spray tank with water and start agitation. Pour the required quantity of **TERBUTHYLAZINE** through a 50 mesh sieve into the tank. Top up the tank with water to the final volume required. Ensure thorough agitation during filling. When used a tank mixture with Glyphosate based products ensure that the **TERBUTHYLAZINE** is added last.

Ensure thorough agitation during filling and spraying operations.

APPLICATION:

TERBUTHYLAZINE can be applied with any medium-or high volume sprayer fitted with an efficient agitation mechanism, which is capable of giving adequate coverage and even distribution. Best results are obtained with fan-type spray tips that apply at least 200 l spray mixture per hectare.

TERBUTHYLAZINE is mainly absorbed by the roots of weed seedlings and has very little or no effect on established weeds. Where weeds have already emerged, these weeds must first be destroyed through cultivation or a suitable post-emergence herbicide before **TERBUTHYLAZINE** is applied. In situations where the weeds are still small or where the infestation is very light **TERBUTHYLAZINE** can be applied as a tank-mixture with a post-emergence herbicide provided it is compatible. Where the weed stand is well established and dense, **TERBUTHYLAZINE** will not reach the soil surface due to the shading effect of the weeds. In such situations the weeds must first be killed with a post-emergence herbicide before **TERBUTHYLAZINE** can be applied.

AGRICULTURAL USE:**CROPS: APPLES, VINES AND CITRUS****Application Rates:**

CROP	TERBUTHYLAZINE l/ha	TIMING OF APPLICATION
Dryland and Irrigated Bush Vines	3.5 l/ha	Pre-bud
Irrigated Trellis Vines	3.5 l/ha	Early Spring
Apples	3.5 l/ha	During Spring
Citrus	3.5 l/ha	During Spring

In the case of band applications, the dosage rates remain the same although correspondingly less of the spray-mixture will be applied per actual hectare.

Check with your **TERBUTHYLAZINE** supplier if in doubt.

TERBUTHYLAZINE can be mixed with SC formulations of SIMAZINE when used in apples, citrus and vines to increase the residual effect on grasses. Use an application rate of 2.7 l/ha **TERBUTHYLAZINE** plus 2 l/ha SIMAZINE 500 SC on soils with less than 15% clay and an application rate of 2.7 l/ha **TERBUTHYLAZINE** plus 3 l/ha SIMAZINE 500 SC on soils with a clay content of more than 15%.

CROP: MAIZE

TERBUTHYLAZINE can be applied post-emergence in maize tank mixtures with GALAGO (L8700), BASELINE 960 (L9878), and ARMADILLO (L7350).

CROP	TERBUTHYLAZINE l/ha	TIMING OF APPLICATION	ADJUVANT
Maize	1000 ml/ha	Post-emergence	WET-ALL 50 ml/100 L water

INDUSTRIAL USE:

SITE OF APPLICATION	DOSAGE	REMARKS
Along roads, railway lines and on industrial sites	8 to 20 l/ha	Dosage depends on the clay content of the soil and the duration of control required. Use in combination with the required, registered rate of glyphosate, as indicated on the glyphosate product label. TERBUTHYLAZINE can be mixed with SIMAZINE 500 SC to increase the residual effect on grasses.