A suspension concentrate pre-emergence herbicide for the control of a broad spectrum of annual weeds in apples, vines and citrus as well as for the prevention of weed growth on industrial sites and other non-crop areas.

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

‘n Suspensie konsentraat voor-opkom onkruiddodder vir die beheer van ‘n breë spectrum eenjarige onkruide in appels, wingerd en sitrus asook vir die voorkoming van onkruidgroei op industriële en ongeboude gebiede.

HRAC HERBICIDE GROUP CODE: C1
HRAC ONKRUIDDODERGROEP KODE:

ACTIVE INGREDIENT/ AKTIEWE BESTANDDEEL:
Terbuthylazine/Terbutilasien (triazine/triasien) .................................................. 488 g/ℓ
Other triazines/Ander triaziene ........................................................................... 12 g/ℓ

Registration holder/Registrasiehouer:
ARYSTA LifeScience South Africa (Pty) Ltd
7 Sunbury Office Park,
Off Douglas Saunders Drive, La Lucia Ridge,
South Africa, 4019
Tel: 031 514 5600

Contents/Inhoud

Batch No./Lot Nr.: 

Date of manufacture:/Datum van vervaardiging: 

U.N. No. 3082

READ THE LABEL IN DETAIL BEFORE OPENING THE CONTAINER. / LEES DIE ETIKET VOLLEDIG VOORDAT DIE HOEER OOPGEMAAK WORD.
For full particulars, see enclosed leaflet. / Vir volledige besonderhede, sien ingeslote pamflet.
A suspension concentrate pre-emergence herbicide for the control of a broad spectrum of annual weeds in apples, vines and citrus as well as for the prevention of weed growth on industrial sites and other non-crop areas.

HRAC HERBICIDE GROUP CODE / HRAC ONKRUIDDODERGROEP KODE: C1

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Terbutylazine/Terbutilasien (triazine/triasien) ................................................................. 488 g/ℓ
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CAUTION / VERSIGTIG

WARNINGS:
• Harmful when swallowed.
• 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.
• Very toxic to fish and aquatic organisms.
• Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
• In case of poisoning call a physician and make this label available to him/her.

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:
• Do not inhale spray mist.
• Wear protective clothing, a face shield, rubber gloves and rubber boots when handling the concentrate, preparing the spray mixture and when applying.
• 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.

**RESISTANCE WARNING:**
For resistance management, **TERBUTHYLAZINE** is a group code C1 herbicide. Any weed population may contain individuals naturally resistant to **TERBUTHYLAZINE** 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 **TERBUTHYLAZINE** or any other group code C1 herbicide.

To delay weed resistance:
- Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank-mix with products from different herbicide group codes.
- Integrate the control methods (chemical, cultural, biological) into weed control programmes.
For specific information on resistance management contact the registration holder of this product.

**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**

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

<table>
<thead>
<tr>
<th>CROP</th>
<th><strong>TERBUTHYLAZINE</strong> ℓ/ha</th>
<th>TIMING OF APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dryland and Irrigated Bush Vines</td>
<td>3.5 ℓ/ha</td>
<td>Pre-bud</td>
</tr>
<tr>
<td>Irrigated Trellis Vines</td>
<td>3.5 ℓ/ha</td>
<td>Early Spring</td>
</tr>
<tr>
<td>Apples</td>
<td>3.5 ℓ/ha</td>
<td>During Spring</td>
</tr>
<tr>
<td>Citrus</td>
<td>3.5 ℓ/ha</td>
<td>During Spring</td>
</tr>
</tbody>
</table>

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%.

**INDUSTRIAL USE:**

<table>
<thead>
<tr>
<th>SITE OF APPLICATION</th>
<th>DOSAGE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Along roads, railway lines and on industrial sites</td>
<td>8 to 20 ℓ/ha</td>
<td>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. <strong>TERBUTHYLAZINE</strong> can be mixed with simazine 500 SC to increase the residual effect on grasses.</td>
</tr>
</tbody>
</table>