

Read the label before opening the container.

For Full particulars, see enclosed leaflet.

# ENVIRO ORCHARDS



South Africa Reg.No: L 6344 Act No. 36 of 1947

**Enviro ORCHARDS** is a suspension concentrate soil acting herbicide with prolonged action for the prevention of weed growth in wine grape vineyards and apple and pear orchards in the Western Cape.

HRAC HERBICIDE GROUP CODE: C1

## ACTIVE INGREDIENTS:

Terbuthylazine (triazine) .....	250 g/l
Simazine (triazine).....	250 g/l
Total active ingredients .....	500 g/l

Product Information Tel no: 082 801 6759  
In case of poisoning: 082 446 8946

[www.enviro-crop.co.za](http://www.enviro-crop.co.za)

**enviro**

### Registration holder:

Enviro Industries (Pty) Ltd t/a Enviro Weed Control Systems  
Reg No. 1999/006136/07  
1 Triomf Road Potchefstroom 2531  
North West, South Africa  
Tel: 0861 346 257

Batch No:  
Date of Manufacture:

11042000-10/12



CAUTION  
VERSIGTIG



## Enviro ORCHARDS

Reg. No. L6344 Act/Wet No. 36 of/van 1947

**Enviro ORCHARDS** is a suspension concentrate soil acting herbicide with prolonged action for the prevention of weed growth in wine grape vineyards and apple and pear orchards in the Western Cape.

**Enviro ORCHARDS** is 'n suspensie konsentraat onkruidodder met 'n lang nawerking wat die groei van onkruid voorkom in wingerde en appel- en peerboorde in die Wes-Kaap.

HRAC HERBICIDE GROUP CODE / HRAC ONKRUIDDODER GROEPKODE: C1

### ACTIVE INGREDIENTS / AKTIEWE BESTANDEDELE:

Terbutylazine (triazine) / Terbutilasien (triasien).....250 g/l  
 Simazine (triazine) / Simasien (triasien).....250 g/l  
 Total active ingredients / Totale aktiewe bestanddele.....500 g/l

### Registration holder / Registrasiehouer:

Enviro Industries (Pty) Ltd t/a Enviro Weed Control Systems,  
 Reg No. 1999/006136/07  
 10 Ninth Avenue / Nengende Laan, Industria, Kroonstad, 9500 TEL: (056) 213 1967

## CAUTION / VERSIGTIG

### WARNINGS

- Poisonous if swallowed.
- Store in a cool place away from food, feedstuffs, seed, fertilizers and other agricultural products.
- Keep 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 the 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

- Read the entire label before using the product and ensure that the requirements for its correct use are observed.
- Ensure that persons assigned to apply the products are adequately trained.
- Avoid spray drift contaminating other crops, pastures, rivers, dams, boreholes and areas not to be treated.
- Prevent the inhalation of fine spray particles, and avoid eye contamination.
- Do not eat, drink or smoke during application, or before hands and face have been washed using soap and water.
- Prevent the contamination of food, feeds, drinking water and eating utensils.
- Keep in original container, tightly closed and in a safe place.
- Rinse empty 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 destroying the container in the prescribed manner.
- Destroy the empty container by perforation and flattening after use of the product and never use for any other purpose.
- Do not mix and load within at least 15 meter from boreholes, streams, rivers and dams.
- Do not apply within at least 15 meter from boreholes, streams, rivers and dams.
- Do not apply within at least 60 meter of dams.

### RESISTANCE WARNING

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

To delay herbicide resistance:

- Avoid the exclusive repeated use of herbicides from the same herbicide group code.
- Alternate or tank mix with products from difference 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.

### **DIRECTIONS FOR USE: Use only as directed.**

**Enviro ORCHARDS** is a long lasting spray applied herbicide which acts in the soil to control the germination of weed seeds on such sites as wine grape vineyards, apple- and pear orchards. It should be applied prior to the emergence of the weed to the clean soil. Should weeds have already emerged, use an appropriate herbicide in combination with **Enviro ORCHARDS** (Refer to combinations below). **Enviro ORCHARDS** does not control emerged weeds. Rainfall is necessary to leach **Enviro ORCHARDS** into the soil before its action can take place.

### **TANK MIX COMBINATIONS WITH OTHER HERBICIDES**

In order to control existing weeds a combination of a systemic or suitable knockdown herbicide may be used in combination with **Enviro ORCHARDS**. The label recommendations for these products should be followed, and compatibility of the mixture should be established in each case.

**Enviro ORCHARDS** may be used in combination with TUMBLEWEED (Reg. L 4781), ENVIRO GLYPHOSATE 360 (Reg L 4767) or GRAMOXONE in order to control established weeds, but should be mixed as prescribed. Consult the labels of these respective products to determine the dosage rate. Do not use less than 4,5 l TUMBLEWEED or 6 l ENVIRO GLYPHOSATE 360, per hectare in combination with **Enviro ORCHARDS**.

**Enviro ORCHARDS** may be added to a spray mix containing TUMBLEWEED or ENVIRO GLYPHOSATE 360 to provide residual weed control.

Always consult the respective labels and follow the directions for use.

### **MIXING INSTRUCTIONS**

- Shake well before use
- Replace cap after pouring.
- Half-fill the spray tank with water then pour the required quantity of **Enviro ORCHARDS** through a 50 mesh sieve into the tank.
- Top up the tank with water to the final volume required.
- Ensure thorough agitation during filling and spraying operations.
- When used in tank mixture with either TUMBLEWEED, ENVIRO GLYPHOSATE 360 or GRAMOXONE, first add the **Enviro ORCHARDS** and mix well and finally add either the TUMBLEWEED, ENVIRO GLYPHOSATE 360 or GRAMOXONE whilst the spray tank is filled to its final volume with water.
- After each day's spraying flush spray equipment thoroughly with clean water.

### **SPRAY WATER MODIFIERS**

The addition of ammonium sulphate at 1 to 2 kg per 100 l spray water, or bladbuff 5 may improve the action when hard waters are used to apply combinations of **Enviro ORCHARDS** and TUMBLEWEED or ENVIRO GLYPHOSATE 360. The addition of herbicidal spray oils is not recommended with combination mixtures.

A compatibility test, with the proposed combination should be made, using the spray water intended for use, to determine if flocculation (rapid settling-out of chemicals) occurs, in which case special precautions should be taken to ensure adequate agitation in the spray tank.

## APPLICATION

**Enviro ORCHARDS** may be applied by means of knapsack sprayers or tractor operated boom sprayers. Calibrate the equipment to determine the volume applied and ensure that the spray is evenly distributed over the target area. Use a minimum of 200 l/ha, at a nozzle pressure of 200 to 300 kPa. The mixture should be gently agitated at all times prior to and during spraying to prevent deposition on the tank bottom. A knapsack sprayer fitted with a paddle agitator, such as the **Matabi**, is recommended. Always flush out the spray lines immediately after usage. Dispose of washings in a safe place.

## RECOMMENDATIONS

### (i) Control of annual weeds in wine grape vineyards (on vines older than 3 years):

**Enviro ORCHARDS** is registered for use with the following wine grape varieties (a) Chenin Blanc (b) Cabernet sauvignon and (c) Merlot

APPLICATION RATE: Wine grape vineyards		
CROP	SOIL TYPE	Enviro ORCHARDS
Chenin Blanc	> 15 % clay	6 l/ha
Cabernet sauvignon	> 15 % clay	6 l/ha
Merlot	> 15 % clay	6 l/ha

### (ii) Control Of Annual Weeds In Apple And Pear Orchards (on trees older than 3 years):

#### Directed Application

APPLICATION RATES (Only trees older than 3 years)		
CROP	SOIL TYPE	Enviro ORCHARDS
Apples	< 15% clay	4 l/ha
	> 15% clay	6 l/ha
Pears	< 15% clay	Not recommended
	> 15% clay	6 l/ha

#### Note:

**Enviro ORCHARDS** does not have any post-emergence activity and must, therefore, be applied to soil, free of emerged weeds at the time of application or must be used in combination with a suitable post-emergence herbicide when weeds are present. Best results will be obtained when **Enviro ORCHARDS** is applied subsequent to the application of a post-emergence herbicide such as TUMBLEWEED. A dense stand of weeds may, however, result in insufficient penetration of **Enviro ORCHARDS** to the soil surface. The best result with **Enviro ORCHARDS** is obtained when application is made as late as possible in the season (end October, beginning November) but at the first signs of weed germination. Rain or irrigation is required shortly after application **Enviro ORCHARDS** to activate the product. Application made during late spring or early summer must therefore be followed by irrigation if rain does not occur within 10 days of application.

#### Remarks:

- (i) Apply in 200 to 300 l water/ha.
- (ii) When **Enviro ORCHARDS** is used in combination with TUMBLEWEED or GRAMOXONE follow all the instructions on the TUMBLEWEED/ GRAMOXONE label.
- (iii) The residual activity on grasses may not always be satisfactory, particularly where the product was applied early (July to September) and / or on light soils under conditions of heavy rainfall or irrigation.
- (iv) Do not apply on soils with a pH in water of 7 or higher or poorly drained soils.
- (v) Do not apply to trees suffering from micro-nutrient deficiencies.
- (vi) **Enviro ORCHARDS** has a relatively long residual activity. Therefore do not plant any sensitive crops such as vegetables, legumes or winter cereals within 18 months after treatment.
- (vii) Do not apply to interplants before they are older than 3 years.

**ACKNOWLEDGEMENTS OF TRADEMARKS**

Bladbuff 5 : Plaaskem (PTY) LTD PO Box 87005, HOUGHTON, 2041, RSA  
 Gramoxone : Zeneca Agrochemicals SA (PTY) LTD Private Bag X8, GALLO MANOR,  
 2052, RSA  
 Matabi : Goizper S. Coop, Ltda, PO Box 211-20570, Bergara, Spain.

<b>LIST OF WEEDS CONTROLLED BY PRE-EMERGENCE TREATMENT</b>	
<b>GRASSES</b>	
<i>Avena fatua</i>	Common Wild Oats
<i>Bromus diandrus</i>	Riput brome
<i>Bromus unioloides</i>	Rescue grass
<i>Chloris virgata</i>	Feathertop Chloris
<i>Digitaria sanguinalis</i>	Crab Finger-grass
<i>Eleusine indica</i>	Goose Grass
<i>Eragrotis teff</i>	Teffgrass
<i>Lolium temulentum</i>	Darnel
<i>Lolium perenne</i>	Perennial ryegrass
<i>Panicum schinzii</i>	Sweet Buffalo Grass
<i>Setaria pallide-fusca</i>	Red Bristle Grass
<i>Setaria verticillata</i>	Sticky Bristle Grass
<i>Urochloa panicoides</i>	Herringbone Grass
<b>BROADLEAF WEEDS</b>	
<i>Acanthospermum australe</i>	Creeping starbur
<i>Acanthospermum hispidum</i>	Upright Starbur
<i>Amaranthus hybridus</i>	Common Pigweed
<i>Amaranthus spinosus</i>	Thorny Pigweed
<i>Arctotheca calendula</i>	Cape Marigold
<i>Bidens bipinnata</i>	Spanish Blackjack
<i>Bidens pilosa</i>	Common Blackjack
<i>Chenopodium album</i>	White Goosefoot
<i>Chenopodium murale</i>	Nettle leafed goosefoot
<i>Conyza Canadensis</i>	Fleabane
<i>Conyza sumatrensis</i>	Tall fleabane
<i>Cosmos bipinnatus</i>	Cosmos
<i>Datura ferox</i>	Large Thorne Apple
<i>Datura stammonium</i>	Thorn Apple
<i>Emex australis</i>	Spiny emex
<i>Erodium moschatum</i>	Musk Heron's Bill
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Polygonum aviculare</i>	Prostate knotweed
<i>Portulaca oleracea</i>	Common Purslane
<i>Raphanus raphanistrum</i>	Wild radish
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Sonchus oleracea</i>	Common Sow Thistle
<i>Tagetes minuta</i>	Khaki Weed
<i>Tribulus terrestris</i>	Common dubbeltjie
<i>Vicia sativa</i>	Broad-leafed purple vetch