

Orbit GR

South Africa Reg. No: L6407 Act No. 36 of 1947

A non-selective granular herbicide for weed control on industrial sites, such as along railway lines, electrical and storage yards, on roadsides and other non-crop areas.

HRAC HERBICIDE GROUP CODE: C1

ACTIVE INGREDIENT:

Bromacil.....	80g/kg
Terbuthylazine (Triazine).....	120g/kg
Related active triazines.....	0.24g/kg
Total active ingredients.....	200.24g/kg

Product Information Tel No: 072 678 8226

In case of poisoning: 082 446 8946

www.envirobiochem.co.za

Expiry Date:

Batch No:

Date of Manufacture:

UN No. 3077



CAUTION
VERSIGTIG

enviro
bio-chem

Registration holder:
Enviro Industries (Pty) Ltd t/a Enviro Weed Control Systems
Co. Reg. No: 1999/006136/07
44 Kerk Street, Lichtenburg
North West, South Africa 2740
Tel: +27 87 231 7261

WARNINGS:

- Handle with care.
- Poisonous if swallowed.
- May irritate nose, skin, throat and eyes.
- Store in a cool place.
- Toxic to fish.
- Do not store near food, feed, fertilizer or seed.
- Do not apply Orbit GR within the root zone of desirable vegetation, such as ornamental trees or lawns or where it could be washed or leached to within the root zone of such vegetation, as severe damage could be caused.
- Keep out of reach of children.
- Do not contaminate rivers, streams or dams.

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, 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:

- Read the entire label before using the product. Do not suck the product through a tube by mouth or use mouth to blow out clogged lines, nozzles, etc.
- Do not permit use by untrained persons.
- Do not inhale herbicidal dust and prevent skin and eye contact.
- Do not eat, drink or smoke during application, or before hands and face have been washed.
- Wash with soap and water after use.
- Prevent the contamination of food and eating utensils.
- Do not clean application equipment on or near gardens, lawns or other desirable vegetation.
- Destroy empty container and do not re-use for any other purpose.
- Do not contaminate rivers, streams or dams.
- Keep in original container, tightly closed in a safe place.
- Do not apply to areas designated for future cultivation.

DIRECTIONS FOR USE: Use only as directed.

Read Entire Label Before Using.

GENERAL:

Orbit GR is a non-selective herbicide based on two components which complement each other to provide good initial kill plus extended control of a wide range of weeds. It may be:

1. Applied to soil or stone chips.
2. To growing weeds.
3. It may be used in conjunction with a non-residual systemic herbicide such as TUMBLEWEED (Reg. No: L4781), roundup*, or sting* in order to control resistant weeds and simultaneously achieve extended residual control over the area, providing the recommendations for the use of each product are followed.

Best results will be obtained if Orbit GR is applied at the beginning of the rainy season when the weeds are young and more susceptible to herbicidal treatment. Higher quantities will be required to control mature weeds. Orbit GR acts via the roots of established plants and weed seedlings. It is necessary for rainfall to leach the herbicide into the soil before its action can take place.

Dry conditions after application may result in diminished control. The higher the dosage the longer will be the period of weed control obtained. Heavy rainfall in the latter part of the season may cause diminished control or shallow germinating weed species late in the season.

Soil characteristics affect the performance of the herbicide. Soils with a high clay content or with high carbon content resulting from the deposition of coal dust and ash, require higher doses than light soils. Further herbicidal treatments may be required to control weeds which escape the initial treatment under these conditions. Should this occur consult the supplier with a view to a suitable program.

RECOMMENDATIONS: Dosage in kg/ha:

SITUATION	LIGHT TEXTURED SOILS 5 - 20% CLAY	MEDIUM TEXTURED SOILS 21 - 35% CLAY	HEAVY TEXTURED SOILS 36 - 45% CLAY	SOILS CONTAINING CARBON FROM COAL & ASH	REMARKS
Annual weeds and areas previous herbicidally treated; bare soil and stone chips.	50 - 63	63 - 75	76 - 88	100 - 125	Suitable for listed annual weeds up to 10 leaf stage. To control weeds flowering use dosage given for a "mixed weed population". In ash areas develop program incorporating foliar herbicides to control escape species.
Mixed weed population including perennial grasses.	88 - 113	113 - 125	126 - 138	150 - 163	Apply early in the season prior to tilling of grasses or seeding of broadleaved weeds. For mature stands slash prior to treatment or use a foliar knockdown herbicide.
Combination with roundup to broaden the range of weeds controlled. a) First year b) Subsequent years	a) 80 - 90 b) 50 - 63	a) 91 - 100 b) 63 - 75	a) 101 - 110 b) 76 - 88	a) 125 - 150 b) 100 - 125	Apply Orbit GR to the weeds to be controlled and immediately follow up with roundup* as a foliar spray using 6 - 10l/ha as 2.5% solution. Consult the roundup label prior to using the product. Consult the list for additional weeds controlled

NOTES: Apply the higher rate where the seasonal rainfall is over 600mm per year, and for longer residual action. Where *Cynodon Dactylon* (Common Quickgrass) or *Rhynchoselytrum Repens* (Natal Red Top) are a problem, use a minimum of 138kg/ha. In all cases watch for signs of regrowth and retreat or spot treat with a suitable herbicide. Where roundup* or sting* are to be used in combination with Orbit GR in Spring, delay treatment until germination or resistant weeds has occurred. If possible treatment should be applied prior to the seeding of over-wintering weeds. Rainfall within 6 hours of application may diminish the effect of roundup or sting.

Consult a representative from ENVIRO WEED CONTROL SYSTEMS for further information.

* Acknowledgements of Trade Marks.

ROUNDUP* or STING* are Trade Marks of Monsanto Chemical Company, Midland USA.

PARTIAL LIST OF WEEDS CONTROLLED BY Orbit GR Consult "Remarks" under dosage table.

A. POST-EMERGENCE APPLICATION

(i) Annual Grasses

BOTANICAL NAME	COMMON NAME
<i>Digitaria Sanguinalis</i>	Crabfingergrass
<i>Lolium Temulentum</i>	Darnel
<i>Cenchrus Brownii</i>	Fine Burgrass
<i>Cenchrus Incertus</i>	Sand Burgrass
<i>Panicicum Chinzii</i>	Sweet Buffalo Grass
<i>Eleusine Indica</i>	Goose Grass
<i>Chloris Pycnothrix</i>	Spiderweb Chloris
<i>Setaria Verticillata</i>	Sticky Bristle Grass
<i>Brachiaria Eruciformis</i>	Sweet Signalgrass

(ii) Annual broadleaf weeds

BOTANICAL NAME	COMMON NAME
<i>Arcototheca Calendula</i>	Cape Marigold
<i>Bidens Formosa</i>	Cosmos
<i>Bidens Bipinnata</i>	Spanish Blackjack
<i>Bidens Pilosa</i>	Blackjack
<i>Conyza Bonariensis</i>	Flaxleaf Fleabane
<i>Conyza Floribunda</i>	Tall Fleabane
<i>Conyza Canadensis</i>	Canadian Fleabane
<i>Tribulus Terrestris</i>	Common Dubbeltjie
<i>Tagetes Minuta</i>	Tall Khakiweed
<i>Amaranthus Hybridus</i>	Common Pigweed
<i>Chenopodium Album</i>	White Goosefoot

(iii) Perennial Grasses

BOTANICAL NAME	COMMON NAME
<i>Cynodon Dactylon</i>	Common Quickgrass
<i>Eragrostis Curvula</i>	Love Grass
<i>Hyparrhenia Hirta</i>	Common Thatch Grass
<i>Rhynchospora Repens</i>	Natal Red Top
<i>Themeda Triandra</i>	Red Grass
<i>Pennisetum Cladestinum</i>	Kikuyu

B. PRE-EMERGENCE APPLICATION**(i) Annual Grasses**

BOTANICAL NAME	COMMON NAME
<i>Digitaria Sanguinalis</i>	Crabfingergrass
<i>Lolium Temulentum</i>	Darnel
<i>Cenchrus Brownii</i>	Fine Burgrass
<i>Cenchrus Incertus</i>	Sand Burgrass
<i>Panicicum Chinzii</i>	Sweet Buffalo Grass
<i>Eleusine Indica</i>	Goose Grass
<i>Chloris Pycnothrix</i>	Spiderweb Chloris
<i>Setaria Verticillata</i>	Sticky Bristle Grass
<i>Brachiaria Eruciformis</i>	Sweet Signalgrass

(ii) Broadleaf weeds

BOTANICAL NAME	COMMON NAME
<i>Acanthospermum Australe</i>	Creeping Starbur
<i>Acanthospermum Hispidum</i>	Upright Starbur
<i>Amaranthus Hybridus</i>	Common Pigweed
<i>Amaranthus Spinisus</i>	Spiny Pigweed
<i>Arctotheca Calendula</i>	Cape Marigold
<i>Bidens Bipinnata</i>	Spanish Blackjack
<i>Bidens Formosa</i>	Cosmos
<i>Bidens Pilosa</i>	Common Blackjack
<i>Chenopodium Album</i>	White Goosefoot
<i>Commelina Benghalensis</i>	Wandering Jew
<i>Conyza Canadensis</i>	Canadian Fleabane
<i>Datura Stramonium</i>	Thorn Apple
<i>Falveria Bidentis</i>	Smelter's Bush
<i>Galinsoga Parviflora</i>	Gallant Soldier
<i>Portulaca Oleracea</i>	Common Purslane
<i>Schkuhria Pinnata</i>	Dwarf Marigold
<i>Sonchus Oleraceus</i>	Sow Thistle
<i>Tagetes Minuta</i>	Khakiweed
<i>Tribulus Terrestris</i>	Common Dubbeltjie

C. COMBINATION OF Orbit GR WITH ROUNDUP* AT 6 - 10l/HA (2.5% SOLUTION) OR STING* AT RECOMMENDED RATES. ESTABLISHED PLANTS OF THE FOLLOWING SPECIES WILL BE CONTROLLED IN ADDITION TO THOSE LISTED FOR ORBIT GR SINGLY.

(i) Broadleaf weeds

BOTANICAL NAME	COMMON NAME
<i>Amaranthis Nybridus</i>	Common Pigweed
<i>Conyza Bonariensis</i>	Flax-Leaf Fleabane
<i>Conyza Canadensis</i>	Canadian Fleabane
<i>Bidens Floribunda</i>	Blackjack
<i>Datura Stramonium</i>	Thorn Apple
<i>Falveria Bidentis</i>	Smelter's Bush
<i>Galinsoga Parviflora</i>	Gallant Soldier
<i>Schkuhria Pinnata</i>	Dwarf Marigold
<i>Verbena Officinalis</i>	European Verbena
<i>Tagetes Minuta</i>	Khakiweed

(ii) Grasses

BOTANICAL NAME	COMMON NAME
<i>Eragrostis Curvula</i>	Lovegrass
<i>Rhynchoselnum Repens</i>	Natal Red Top
<i>Panicum Maximum</i>	Common Buffalo Grass
<i>Paspalum Dilatatum</i>	Common Paspalum
<i>Urochloa Panicoides</i>	Garden Urochloa
<i>Themeda Triandra</i>	Red Grass