Read the label before opening the container. For full particulars, see enclosed leaflet.

**KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

# ORBIT GR

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

HRAC HERBICIDE GROUP CODE: C1

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.

**ACTIVE INGREDIENT:**

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

**Product Information: 072 678 8226**
**In case of poisoning: 082 446 8946**

**HAZARD STATEMENTS**
- May cause damage to organs through prolonged or repeated exposure.
- Very toxic to aquatic life with long lasting effects.




**PRECAUTIONARY STATEMENTS**
- Do not eat, drink, or smoke when using this product.
- Avoid release to the environment.

enviro™ bio-chem

**Registration holder: Enviro Industries (Pty) Ltd**
**Reg No: 1999/006136/07**
44 Kerk Street, Lichtenburg NW, South-Africa
Tel: +27 12 006 0063 | Fax: +27 86 541 7948
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Expiry Date:
Batch No:
Date of Manufacture:

**UN No. 3077**

**WARNINGS:**

- May cause damage to organs through prolonged or repeated exposure.
- Very toxic to aquatic life with long lasting effects.
- Store in a cool place.
- 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.
- Wash hands, forearms, and face thoroughly after handling
- Do not eat, drink, or smoke when using this product.
- Do not breathe dust.
- Avoid release to the environment.
- Prevent the contamination of food and eating utensils.
- Do not clean application equipment on or near gardens, lawns or other desirable vegetation.
- Triple rinse empty container 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 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 content of the spray tank. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.
- Do not apply to areas designated for future cultivation.

**RELEVANT SUBSTANCES:**

Terbuthylazine 12.27 %
Bromacil < 10 %

**FIRST AID TREATMENT:**

INHALATION: Remove person to fresh air and keep comfortable for breathing.
INGESTION: Do NOT induce vomiting. Rinse mouth.
SKIN CONTACT: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

**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 recom mendations 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 tillering 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.<br><br>a) First year<br>b) Subsequent years | <br><br>a) 80 - 90<br>b) 50 - 63 | <br><br>a) 91 - 100<br>b) 63 - 75 | <br><br>a) 101 - 110<br>b) 76 - 88 | <br><br>a) 125 - 150<br>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 *Rhynchelytrum 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 |
|---|---|
| *Digitaria Sanguinalis* | Crabfingergrass |
| *Lolium Temulentum* | Darnel |
| *Cenchrus Brownii* | Fine Burgrass |
| *Cenchrus Incertus* | Sand Burgrass |
| *Panicicium Chinzii* | Sweet Buffalo Grass |
| *Eleunsine Indica* | Goose Grass |
| *Chloris Pycnothrix* | Spiderweb Chloris |
| *Setaria Verticillata* | Sticky Bristle Grass |
| *Brachiaria Eruciformis* | Sweet Signalgrass |

**(ii) Annual broadleaf weeds**

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

(iii) Perennial Grasses

| BOTANICAL NAME | COMMON NAME |
|---|---|
| *Cynodon Dactylon* | Common Quickgrass |
| *Eragrostis Curvula* | Love Grass |
| *Hyparrhenia Hirta* | Common Thatch Grass |
| *Rhynchelytrum Repens* | Natal Red Top |
| *Themeda Triandra* | Red Grass |
| *Pennisetum Cladestinum* | Kikuyu |

**B. PRE-EMERGENCE APPLICATION**

(i) Annual Grasses

| BOTANICAL NAME | COMMON NAME |
|---|---|
| *Digitaria Sanguinalis* | Crabfingergrass |
| *Lolium Temulentum* | Darnel |
| *Cenchrus Brownii* | Fine Burgrass |
| *Cenchrus Incertus* | Sand Burgrass |
| *Panicicium Chinzii* | Sweet Buffalo Grass |
| *Eleunsine Indica* | Goose Grass |
| *Chloris Pycnothrix* | Spiderweb Chloris |
| *Setaria Verticillata* | Sticky Bristle Grass |
| *Brachiaria Eruciformis* | Sweet Signalgrass |

(ii) Broadleaf weeds

| BOTANICAL NAME | COMMON NAME |
|---|---|
| *Acanthospermum Australe* | Creeping Starbur |
| *Acanthospermum Hispidum* | Upright Starbur |
| *Amaranthus Hybridus* | Common Pigweed |
| *Amaranthus Spinisus* | Spiny Pigweed |
| *Arctotheca Calendula* | Cape Marigold |
| *Bidens Bipinnata* | Spanish Blackjack |
| *Bidens Formosa* | Cosmos |
| *Bidens Pilosa* | Common Blackjack |
| *Chenopodium Album* | White Goosefoot |
| *Commelina Benghalensis* | Wandering Jew |
| *Conyza Canadensis* | Canadian Fleabane |

| BOTANICAL NAME | COMMON NAME |
|---|---|
| *Datura Stramonium* | Thorn Apple |
| *Falveria Bidentis* | Smelter's Bush |
| *Galinsoga Parviflora* | Gallant Soldier |
| *Portilaca Oleracea* | Common Purselane |
| *Schkuhria Pinnata* | Dwarf Marigold |
| *Sonchus Oleraceus* | Sow Thistle |
| *Tagetes Minuta* | Khakiweed |
| *Tribulus Terrestris* | 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 |
|---|---|
| *Amaranthis Nybridus* | Common Pigweed |
| *Conyza Bonariensis* | Flax-Leaf Fleabane |
| *Conyza Canadensis* | Canadian Fleabane |
| *Bidens Floribunda* | Blackjack |
| *Datura Stramonium* | Thorn Apple |
| *Falveria Bidentis* | Smelter's Bush |
| *Galingsoga Parviflora* | Gallant Soldier |
| *Schkuhria Pinnata* | Dwarf Marigold |
| *Verbena Officinalis* | European Verbena |
| *Tagetes Minuta* | Khakiweed |

(ii) Grasses

| BOTANICAL NAME | COMMON NAME |
|---|---|
| *Eragrostis Curvula* | Lovegrass |
| *Rhyncheltrum Repens* | Natal Red Top |
| *Panicum Maximum* | Common Buffalo Grass |
| *Paspalum Dilatatum* | Common Paspalum |
| *Urochloa Panicoides* | Garden Urochloa |
| *Themeda Triandra* | Red Grass |