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

KEEP OUT OF REACH OF CHILDREN AND ANIMALS

WEEDWHACKER

South Africa Reg. No: L6707 Act No. 36 of 1947

HRAC HERBICIDE GROUP CODE: C1

A soil applied herbicide (suspension concentrate) with long residual action for the control of annual and perennial broadleaf weeds and grasses (as listed) in industrial areas, citrus, pineapples and sisal.

ACTIVE INGREDIENT:

Bromacil (substituted uracil).....500 /ℓ

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

HAZARD STATEMENTS
- Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS
- Avoid release to the environment.
- Collect spillage.



WARNING

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
Web: www.envirobiochem.co.za

Expiry Date:
Batch No:
Date of Manufacture:

UN No. 3082

WARNINGS:

- Very toxic to aquatic life with long lasting effects.
- Store away from food, feed, fertilizers and consumable products.
- Keep out of reach of children, animals and uninformed persons.
- Do not apply near desirable vegetation or where their roots may extend.

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:

- Avoid release to the environment.
- Collect spillageStore product in original container in a secure, dry well ventilated area. Keep container tightly closed.
- Avoid drift or spray onto crops, grazing, rivers, dams, wetlands and any area not under treatment. Do not apply where run-off from the treated area will contaminate water or within 10 meters of permanent water.
- Do not mix or load within 20 meters of any body of water.
- Do not mix, load or clean spraying equipment within 20 meters of a well or fountain unless on an impervious pad to prevent groundwater contamination. Prevent groundwater contamination through backsiphoning when filling spray tank by means of a antisiphoning device or an air break between water hose and spray tank contents.
- Dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- Prevent contamination of food, feedstuff, drinking water utensils.
- Do not apply on or within 50 meters from desirable plants or trees (such as windbreaks, ornamental trees and shrubs along roads) or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots since such plants may be killed or severely damaged.
- Do not use on soils where susceptible crops are to be grown within 5 years.
- Over-application or any use not in accordance with the directions on this label may cause stunting of the crop and other adverse effects.
- To avoid injury to desirable plants, spray equipment used for application must be thoroughly washed and rinsed, using the following method: Immediately following application, drain spray equipment. Thoroughly rinse sprayer and flush the hoses, boom and nozzles with clean water. Loosen and physically remove visible deposits. Remove and clean nozzles, screens and strainers. Flush the entire system with clean water. Clean all other associated application equipment.
- 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.

RELEVANT SUBSTANCES:

Bromacil 43.3%
Ethylene glycol < 5%

FIRST AID TREATMENT:

INHALATION: Remove person to fresh air and keep comfortable for breathing.
INGESTION: Immediately call a POISON CENTER/doctor/physician. Do NOT induce vomiting.

SKIN CONTACT: Wash with plenty of water and non-abrasive soap.
EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

RESISTANCE WARNING:
For resistance management **WEEDWHACKER** is a **group code C1** herbicide. Any weed population may contain individuals naturally resistant to **WEEDWHACKE**R and other **group code C1** herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. **WEEDWHACKER** or any other group code C1 herbicide may not control these resistant weeds.
To delay herbicide 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 other control methods (chemical, cultural, biological) into weed control programmes.

For specific information on resistance management contact the registration holders of this product.

WEED RESISTANCE MANAGEMENT:
When herbicides with the same mode of action are used repeatedly over several years to control the same weed species on the same site, naturally occurring resistant weed biotypes may survive a correctly applied herbicide treatment, propagate and become dominant at that site. These resistant weed biotypes may not be adequately controlled.
Cultural practices such as tillage, preventing weed escapes from going to seed, and using herbicides with a different mode of action within and between crop seasons can aid in delaying the proliferation and possible dominance of herbicide resistant biotypes.

DIRECTIONS FOR USE: Use only as directed
General:
- **WEEDWHACKER** is a herbicide with long residual action.
- It should be applied prior to or during the period of active growth of weeds.
- The chemical is mainly absorbed by roots of grasses and broadleaf weeds and water is required to carry the chemical down to the root zone within 2 weeks after application.
- Effects of **WEEDWHACKER** on existing weeds are slow to appear and several weeks may be required for maximum effects to become visible.
- The degree of control and duration of effect will depend on the dosage rate, rainfall and soil type, etc.
- In the case of a dense growth of broadleaf weeds and grasses, considerably better results will be obtained if these weeds are removed prior to treatment.
- **WEEDWHACKER** is mixed with water (500 to 1 000ℓ/ha) and applied onto the soil in an even spray.
- A uniform coverage of the soil is of utmost importance. Before application accurately calibrate spray equipment to determine the exact quantity of water per ha.
- Use the correct type of spray nozzle to give a flat, fan type spray pattern.
- Keep the chemical in continuous suspension by means of proper agitation.
- **WEEDWHACKER** diluted for use is non-corrosive, non-volatile and non-flammable.

CONSULT THE TABLE UNDER DOSAGE RATES FOR RECOMMENDED RATES AND APPLICATION, TAKING THE FOLLOWING SITE VULNERABILITY CHARACTERISTICS INTO CONSIDERATION:

Highly vulnerable sites (Less than 0.5% organic matter, greater than 50% sand, water table less than 2 meters below surface and annual rainfall greater than 100mm):
Do not use more than 4ℓ **WEEDWHACKER** per hectare per year.

Moderately vulnerable sites (at least two of the characteristics, shown above, describing a highly vulnerable site are not present):

Do not apply more than 12ℓ **WEEDWHACKER** per hectare per year.

Low vulnerable sites (at least three of the characteristics describing a highly vulnerable site are not present):
Do not apply more than 20ℓ **WEEDWHACKER** per hectare per year.

SOME WEEDS NORMALLY CONTROLLED:

BOTANICAL NAME	COMMON NAME
Acanthospermum Hispidum	Upright Starbur
Amaranthus Hybrisdus	Cape Pigweed
Aristida Congesta	Tassel Three-Awn
Brachiaria Eruciformis	Sweet Signal Grass
Chloris Pycnothrix	Siderweb Chloris
Cyperus Esculentus	Yellow Nutsedge
Cyperus Rotundus	Red Nutsedge
Cynodon Dactylon	Common Quick Grass
Digitaria Sanguinalis	Crabgrass
Eleusine Indicia Subsp. Africana	African Goosegrass
Hyparrhenia Hirta	Common Thatching Grass
Panicum Schinici	Sweet Buffalo Grass
Pennisetum Clandestinum	Kikuyu Grass
Setaria Verticillata	Burr Bristle Grass
Tagetes Minuta	Tall Khaki Weed
Tragus Racemosius	Stalked Bristle Grass

DOSAGE RATES:

INDUSTRIAL USE - Along rail tracks, roads, industrial areas:

SOIL TYPE (% clay content)	LITRE/ha	SPOT TREATMENT (per 50m²)	REMARKS
Sandy soil & loamy sand (up to 20% clay)	13 - 16ℓ/ha	80mℓ	Use the higher rate on each soil type where existing weeds are treated. Do not exceed 20ℓ **WEEDWHACKER** per hectare per year.
Sandy loam (21 - 35% clay)	16 - 20ℓ/ha	100mℓ	
Sandy clay loam (above 35% clay)		110mℓ	

TANK MIX COMBINATION WITH OTHER HERBICIDES:

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

WEEDWHACKER may be used in combination with the following products:

1. **TUMBLEWEED** (Reg. No: L4781); **ENVIRO GLYPHOSATE 360** (Reg. No: L4767) and **ROUNDUP** (Reg. No: L0407): These herbicides will assist the action of **WEEDWHACKER** by providing additional knockdown, and widening the range of weed species controlled. In all cases follow the directions for use on the product label of the additional herbicide.

2. **OUTPACE FLOWABLE** (Reg. No: L4760)
Where it is required to increase the level of soil residual in the treatment, **OUTPACE FLOWABLE** (Reg. L4760) may be added at a suitable rate depending on the soil type and period of residuality required. In all cases follow the directions for use on the product label of additional herbicide.

3. **ARSENAL** (Reg. No:L3013), **VELPAR DF** (Reg. No: L5432) (Only for industrial Use):
These herbicides will assist the action of **WEEDWHACKER** by providing additional foliar knockdown. The soil residual action of a specific dose of **WEEDWHACKER** may be increased by adding these products. The tank mix widens the range of weed species controlled. In all cases follow the directions for use on the product label of the additional herbicide.

AGRICULTURAL USE

Citrus (Only established trees older than 2 years)

SOIL TYPE (% clay content)	LITRE/ha	SPOT TREATMENT (per 50m^2)	REMARKS
Sandy Soil (tot 10% clay)	4.8ℓ	25mℓ	Use on cleanly cultivated soil or actively growing weeds in a young stage. Do not apply dimethoate to soil that has at ay time received **WEEDWHACKER** and alteratively an application of **WEEDWHACKER** should not follow within 12 months of dimethoate soil application.
Loamy Sand (11 - 15% clay)	6.4ℓ	30mℓ	
Sandy Loam (16 - 20% clay)	8ℓ	40mℓ	
Sandy Clay Loam (21 -35% clay)	12.8ℓ	50mℓ	
Sandy Clay (36-55%)		65mℓ	

Sisal (Established plants)

SOIL TYPE (% clay content)	LITRE/ha	SPOT TREATMENT (per 50m²)	REMARKS
Sandy Soil (tot 10% clay)	4.8ℓ	25mℓ	Use on cleanly cultivated soil or actively growing weeds in a young stage. When only rows are treated, the rate of applcation should be decreased accordingly.
Loamy Sand (11 - 15% clay)	6.4ℓ	30mℓ	
Sandy Loam (16 - 20% clay)	8ℓ	40mℓ	
Sandy Clay Loam (21 -35% clay)	12.8ℓ	50mℓ	
Sandy Clay (36-55%)		65mℓ	

Pineapples (After planting or on established plants)

SOIL TYPE (% clay content)	LITRE/ha	SPOT TREATMENT (per 50m²)	REMARKS
Sandy Soil (tot 10% clay)	2.4ℓ	13mℓ	Use as a full cover application on clealy cultivated soil. Perennial broadleaf weeds and grasses are not cotrolled by these rates.
Loamy Sand (11 - 15% clay)	3.2ℓ	16mℓ	
Sandy Loam (16 - 20% clay)	4.0ℓ	19mℓ	
Sandy Clay Loam (21 -35% clay)	4.8ℓ	24mℓ	

Acknowledgement of Trade Marks:

Arsenal: Cyanamid (Pty) Ltd, Private Bag X211, Midrand, 1685

Cention 800 SC: Highland Holdings t/a Agricultural Resource Consultants, P.O. Box 3474, Parklands, 2121

Roundup: Monsanto South Africa (Pty) Ltd, P.O. Box 69933, Bryanston, 2021

Velpar DF: DuPont De Nemours South Africa (Pty) Ltd, P.O. Box 3332, Halfway House, 1685