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

KEEP OUT OF REACH OF CHILDREN AND ANIMALS

RELEASE

South Africa Reg. No: L6020 Act No. 36 of 1947

HRAC HERBICIDE GROUP CODE: GCq

A granular root absorbed herbicide for dry application, possessing residual action, for the control of weeds on non-crop areas and in plantations of certain Pinus species, as specified, in the Southern Cape region bounded by Stutterheim in the east and Mosselbay in the west.

ACTIVE INGREDIENT:

Hexazinone (triazinone).....200g/kg

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

HAZARD STATEMENTS

- Causes serious eye irritation.
- Very toxic to aquatic life with long lasting effects.



PRECAUTIONARY STATEMENTS

- Wash hands, forearms, and face thoroughly after handling.
- Avoid release into the environment.

enviro™ bio-chem

Registration holder: Enviro Industries (Pty) Ltd
Reg No. 1999/006136/07
44 Kerk Street, Lichtenburg North West, 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. 3077

WARNINGS:
- Causes serious eye irritation
- Very toxic to aquatic life with long lasting effects
- Keep out of reach of children and uninformed persons.
- Store in original container in a cool place out of direct sunlight, and away from food, feed, seed and fertilizer.

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 disease to the remedy concerned as well as by the method, time and accuracy of application. The registration holder further 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 event of any uncertainty.

PRECAUTIONS:
- Read label before use.
- Wash hands, forearms, and face thoroughly after handling.
- Avoid release into environment
- Wear impervious rubber gloves and boots, protective clothing, and chemical safety goggles.
- Collect spillage.
- Dispose of content/container in accordance wich loacal regulations.
- 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.
- Do not contaminate streams, rivers or dams with the chemical or used containers or packages.
- Do not apply the product in a water course within the maximum flood level, or in a wetland.
- Do not apply on sloping ground where surface wash could carry the product to sensitive areas, or into which the roots of desirable may extend.
- Do not apply within the root zone of desirable trees or plants. Allow at least twice the height of the tree to determine root spread.
- Do not load within 20 metres of any body of water.
- Do not load within 20 metres of a well unless on an impervious pad to prevent groundwater contamination.

ENVIRONMENTAL RESTRICTIONS:
1. **Highly Vulnerable Sites -** (less than 0.5% organic matter, greater than 60% sand, water table less than 2 metres below surface and annual rainfall greater than 1 000mm). Do not apply more than 10kg per hectare per year. Spot treatments will effectively reduce the total quantity applied.
2. **Moderately Vulnerable Sites -** (at least two of the factors, shown above characterising a vulnerable site are not present) Do not apply more than 30kg per hectare per year. Spot treatments will effectively reduce the total quantity applied.
3. **Low Vulnerability Sites** (at least three of the factors above characterising a vulnerable site are not present): Do not apply more than 50kg per hectare per year.

RELEVANT SUBSTANCES:
Hexazinone 48.5%
Calcium lignosulphonate < 3%

FIRST AID TREATMENT:
INHALATION: Remove person to fresh air and keep comfortable for breathing.

INGESTION: Do not induce vomiting. Consult a physician and get medical attention immediately.
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. If eye irritation persists: Get medical advice/attention

DIRECTIONS FOR USE: Use only as directed

RELEASE is a broad spectrum herbicide which controls many annual and perennial weeds, both grasses and broadleaved weeds as well as a number of woody and semi-woody trees and shrubs. It is root absorbed and requires leaching into the root zone of the weeds to be controlled. Adequate rainfall is required for this purpose. It also is a pre-emergence herbicide with residual action and will control several weed species that may germinate after application. It should be applied just prior to or at the commencement of active weed growth preferably at the beginning of the rainfall period where seasonal rain occurs. Under dry conditions results may be slow to appear. Soil type has an influence on the activity of the product, higher rates being required as the clay and humus contents of the soil increases. It is not recommended on soils containing under 5% or over 35% clay. The length of residual weed control obtained is dependant on the dosage rate, rainfall subsequent to application, soil type and species of weed seeds present in the soil bank. Weeds which are entering the dormant cycle, or which have shed seed, or suffering from moisture stress or cold may not be adequately controlled. Do not apply during periods of heavy rainfall.

RELEASE MAY BE USED FOR:

i) Total vegetation control applied broadcast or by means of the Weed-a-Meter (WAM) for localised weed control.
ii) Localised weed control in plantations of certain *Pinus* species under restricted conditions using the Weed-a-Meter.
Refer to the appropriate sections for details.

APPLICATIONS:

The product should be distributed dry over the weeds using a calibrated mechanical distributor for broadcast application, or by means of a calibrated Weed-a-Meter for localised control.

TOTAL VEGETATION CONTROL:

DOSAGE RATES – TOTAL VEGETATION CONTROL				
SOIL TYPE	ANNUAL WEEDS		PERENNIAL WEEDS	
5 - 20% clay (sand)	g/ha	g/m^2	kg/ha	g/m^2
	15 - 20	1.5 - 2.0	20 - 25	2.0 - 2.5
21 - 35% clay (sandy clay loam)	20 - 25	2.0 - 2.5	25 - 30	2.5 - 3.0

Where *Cynodon dactylo*n or *Paspalum spp* are a problem use 30 to 40kg/ha (3.0 to 4.0g/m^2) and repeat is necessary towards the end of the growing season using half the initial rate.

USE OF THE Weed-a-Meter (WAM):

For spot application the WAM maybe used to apply RELEASE over a circle from 1.0 to 1.5 metres in diameter depending on the height held above the ground. The table below gives the dosage applied in grams per m^2 using different trigger sizes when the trigger is held at a height of approximately 90cm giving 1.2 metres diameter spot.

WAM APPLICATION GUIDE				
TRIGGER#	NUMBER OF SHOTS	SPREAD IN METRES	G/m^2	g/shot
#1	1	1.2	0.8	0.9
#2	1	1.2	1.5	1.7
#2	2	1.2	3.6	1.7
#3	1	1.2	2.25	2.55
#3	2	1.2	4.50	2.55

Always check the delivery of the product prior to usage. Do not use the WAM under windy or rainy conditions.

USAGE COMMENTS:

1. Refer to the weeds list for species controlled.
2. Use the lower rate on young weeds, and the higher rate for more mature plants, or where a longer residual control is required. Weeds should be actively growing at the end of the treatment. Plant stressed from drought, cold or which are waterlogged will not be adequately controlled.
3. Watch for escape weeds and repeat on a spot basis.
4. Residual control obtained may vary from 2 to 4 months, depending on conditions. Where a bare ground situation is required for a longer period in the same growing season, re-apply at the rate of 12.5 to 15kg/ha to the emerging weeds.

PINE TREE RELEASE APPLICATION:

RELEASE may be used under certain conditions for weed control in plantations of *Pinus* radiata and *Pinus elliotti* in the Southern Cape region, using the Weed-a-Meter. As young trees **may be killed or injured**, it is important that the following restrictions be observed:

- Select only strong rooted, hardened, stress free plants for transplanting purposes.
- Do not apply to young trees until at least 4 months after transplanting. Where interplanting of trees is practiced, 4 months should elapse from this date.
- Do not apply to trees which have poor vigour due to inadequate root systems, or suffering from drought, waterlogging, disease or other adverse environmental factors.
- Do not apply to trees planted in light sandy or gravelly soils with less than 15% clay content, or on soils with a high leaching index, or on poorly drained soils subject to waterlogging.
- Do not exceed the dosage specified.
- Do not apply during cold weather causing tree stress.
- Do not repeat an application in the same season.

DIRECTIONS FOR USE: *Pinus radiata* and *Pinus elliotti.*

General:

RELEASE is applied to weeds around individual trees using the Weed-a-Meter held centrally over the tree at the correct height to provide a 1.2 metres diameter spot. Refer to Weed-a-Meter instructions leaflet before using the product. **Trees should be growing vigorously at the time of application.** Apply either before or after weed germination but preferably before the weeds become competitive to the tree. Familiarise yourself with the precautions and general instructions for using the product. Ensure that persons assigned to apply the product are properly trained, and are aware of the danger of killing trees from overapplication.

COMMENTS:

- Use the 0.8g/m^2 rate for pre-emergence weed control or where weeds are in die seeding stage.
- The 2.26g/m^2 rate is suggested for the use on robust trees where “fynbos” type weeds are a problem and where extended residual control is required. The safety of this rate in respect to tree injury should be established by treating a limited area in the first instance under the local conditions prevailing in the area.
- If in doubt to procedure contact your distributor or a representative of Enviro Weed Control Systems.

MAXIMUM DOSAGE RATES FOR *Pinus radiata* and *Pinus elliotti*					
SITUATION		g/m²	g/tree PER 1.2m DIAMETER	WAM TRIGGER #	NUMBER OF SHOTS
AGE OF TREES	SOIL TYPE % CLAY				
4 - 6 months	15 - 20%	0.8	0.96	#1	One
	21 - 35%	1.5	1.7	#2	One
Older than 6 months	15 - 35%	1.5	1.7	#2	One
Older than 12 months	15 - 35%	2.26	2.55	#3	One

Partial list of southern cape forestry weeds controlled by 1.5g/m² release #2 WAM trigger:

BOTANICAL NAME	COMMON NAME	COMMENTS
Acacia Mearnsii	Black Wattle	Pre-emergence or early seedling stage, rainfall essential shortly after application.
Acacia Melanoxylon	Blackwood	
Chrysanthemoides Monilifera	Brother Berry	
Conyza Canadensis	Horseweed	
Digitana Sanguinalis	Crab Fingergrass	
Ehrharta Calycina	Ehrhata	
Ehrharta Subspicata	Ehrhata	
Fimbristylis Hispidula	Sedge	
Fimbristylis Dichotoma	Sedge	
Gleichenia Polypodioides	Creeping Fern	Young plants only. Suppression of mature plants.
Helichrysum Cripum	Everlasting	
Helichrysum Cymosum	Everlasting	
Helichrysum Riveum	Everlasting	
Hydrocotyl Americana	Navelwort	
Hypochoeris Radicata	Hairy Wild Lettuce	
Lobelia Erinus	Lobelia	
Lolium Spp	Ryegrass	
Metalasia Muricata	Blombos	
Paspalum Dilatatum	Common Paspalum	
Pennisitum Clandistinum	Kikuyu Grass	
Phylicia Spp		
Pteridium Aquilinum	Bracken	Suppression only

BOTANICAL NAME	COMMON NAME	COMMENTS
Restio Triticus	Sedge	
Stoebe Incana	Slangbos	
Solanum Nigrum	Nightshade	
Stoebe Plumose	Slangbos	
Tetradenia Riparia (Sp)	Watersalie	
Virgilla Oroboides	Snowdrop Tree	

PARTIAL LIST OF WEEDS CONTROLLED ON NON-CROP SITES:

ANNUAL WEEDS	
BOTANICAL NAME	COMMON NAME
Amaranthus Hybridus	Common Pigweed
Argemone Mexicana	Mexican Poppy
Cosmos Bipianatus	Cosmos
Bromus Unioloides	Rescue Grass
Commelina Benghalensis	Wandering Jew
Conyza Albida	Tall Fleabane
Conyza Bonariensis	Flax-Leaf Fleabane
Conyza Canadenis	Horseweed Fleabane
Cyperus Esculentus	Yellow Nutgrass
Digitaria Sanguinalis	Crab Fingergrass
Eleusine Africana	Goose Grass
Panicum Schinzii	Sweet Buffalo Grass
Pseudo Gnaphalium Luteo-Album	Jersey Cudweed
Tagetes Minuta	Khaki Weed
PERENNIAL WEEDS	
Cynodon Dactylon	Common Kweek Grass
Eragrostis Chloromelas	Lovegrass
Eragrostis Curcula	Weeping Love Grass
Eragrostis Lehmanniana	Lovegrass
Hyparrhenia Hirta	Common Thatch Grass
Panicum Maximum	Buffalo Grass

PERENNIAL WEEDS	
BOTANICAL NAME	COMMON NAME
Pennisetum Clandistum	Kikuyu Grass
Themeda Triandra	Red Grass