



ERASE Granule



Botswana Reg. No. /Nr W130558, Act No. /Wet Nr. 18 of/van 1999

A water soluble granular non-selective foliar, systemic herbicide for the control of a wide range of annual and perennial grasses, broadleaf weeds and certain woody perennials as listed in agricultural, non-crop and industrial areas.

'n Wateroplosbare korrel nie-selektiewe, blaar toegediende sistemiese onkruidodder vir die beheer van verskeie eenjarige en meerjarige grasse, breëblaaronkruiden en sekere houtagtige onkruiden soos aangedui in landboukundige, nie-bewerkte en nywerheidsgebiede.

GROUP G HERBICIDE / GROEP G ONKRUIDDODER

Active Ingredient / Aktiewe Bestanddeel:

Glyphosate 500 g / kg

Glifosaat

Glyphosate (Sodium salt) 588 g / kg

Glifosaat (Natriumsout)

Net Volume

Netto Volume

Registered by/Geregistreer deur:

Gouws and Scheepers (Pty) Ltd / (Edms) Bpk

Reg. No. 1954/003213/07

Trading / Handeldrywend as Plaaskem

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Member of the Chemical Services Group

Batch No:

Lotnr:

Date of Manufacture:

Vervaardigingsdatum:



CAUTION
VERSIGTIG



WARNINGS

Poisonous if swallowed.

Avoid contact with skin or eyes since product is eye irritant and may cause skin irritation.

Store away from food and feeds, fertilizers and other chemicals.

Keep out of reach of children, uninformed persons and animals

TOX CLASS III:

Re-entry interval: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

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 weed 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:

Do not eat, drink or smoke while handling this product.

Prevent contamination of food, feeds, drinking water and eating utensils.

Wash yourself after use or accidental skin contact.

Change and wash contaminated clothes.

Do not inhale the spray mist.

Avoid contact with the spray as much as you can.

Avoid spray drift onto other crops, grazing, rivers, dams and areas not under treatment.

Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.

Destroy empty container and do not use for any other purpose

Excessive foaming might be experienced with the use of the very highest rates or solutions of Erase Granule. It is recommended that a suitable anti-foaming agent be added into the spray tank when excessive foaming is expected before the addition of the Erase Granule.

RESISTANCE WARNING:

For resistance management, **ERASE Granule** is a group G Herbicide. Any weed population may contain individuals naturally resistant to **ERASE Granule** and other group G Herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. The resistant weeds may not be controlled by **ERASE Granule** or any other group G Herbicides. **The following species/weeds have been found to be resistant to glyphosate in some areas: *Conyza spp* (Fleabane), *Lolium spp* (Ryegrass), *Plantago lanceolata* (Narrow leaved ribwort)**

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code.
- Alternate or tank mix with registered 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 holder of this product

DIRECTIONS FOR USE: Use only as indicated.

1. Use only clean water in spray mixture.
2. Always ensure that spray equipment is clean, and correctly calibrated before spraying.
3. Use low spray pressure (100 - 200 kPa) to avoid spray drift.
4. **Erase Granule** is actively absorbed through immature bark and leaves of most plants and trees. Contact with immature bark, such as in trees younger than three years, can result in serious localised or translocated damage. **THEREFORE CONTACT WITH LEAVES, GREEN OR IMMATURE BARK AND FRUIT OF DESIRED PLANTS, WHETHER DIRECT OR BY SPRAY DRIFT, MUST BE AVOIDED. ALWAYS MAKE SURE THAT ONLY UNDESIRED PLANTS ARE TREATED.** Do not spray onto pruned vines or fruit trees until wounds have sealed properly. **Erase Granule** is a non-selective systemic herbicide and is only active when applied to the green foliage and bark of plants. The visible effect of **Erase Granule** on treated foliage usually appears at 10-14 days after treatment but may vary according to weather conditions. **Erase Granule** should be applied to actively growing weeds that are not dormant or under temperature or moisture stress. Rain or irrigation a few days prior to an **Erase Granule** application ensures that weeds are actively growing, resulting in optimum efficacy. Rain or irrigation within 6 hours of application can reduce **Erase Granule** efficacy. Do not spray on weed foliage covered with a layer of dust. In these situations apply after recent rain. **Erase Granule** has **NO** pre-emergence activity, therefore repeat applications are necessary (when applied on its own) to control weeds germinating from seed. Ensure that target weeds are fully exposed to the **Erase Granule** spray.

USER RESTRICTION:

When using Erase Granule as a land preparation for transplanting or sowing of Tomatoes, Tobacco or any other crop with green and soft stems, allow a minimum of 14 days between application and transplanting of seedlings.

MIXING INSTRUCTIONS:

Place a 20 to 30 mesh screen over filling port. Half fill the spray tank with clean water; add the required quantity of **Erase Granule**. Then fill the tank to the required volume with clean water, ensuring thorough agitation. When using tank mixes, the additional herbicide should be added after **Erase Granule** and agitation must be continuous before and during spraying.

APPLICATION:

Remove sediments eg, residues of WP pesticides, from spray tanks before adding **Erase Granule**. Avoid the use of hard or muddy water, or water with a high colloidal content derived from soils high in organic matter. Correctly calibrate all sprayers under field conditions prior to application. It is not necessary to spray to the point of run-off, but essential to ensure complete coverage of the target weed. **EVEN APPLICATION IS ESSENTIAL FOR GOOD RESULTS.**

GROUND APPLICATION:

Erase Granule can be applied with a conventional knapsack sprayer. Where drift is a problem do not exceed 2 Bar.

APPLICATION RATES:

Erase Granule will control most emerged annual weeds germinating from seed in situations such as fallow land, pre-plant of crops, reduced or conservation tillage, perennial vine and tree crops. Apply the **Erase Granule** dosage rate according to the weed growth stage - the higher dosage rates within the range should be used when the weeds are older and more established in the specific growth stage.

SMALL HOLDER APPLICATION INSTRUCTIONS:

One liter of spray mixture must be sprayed on an area covered with weeds of not less than 10 sq.m. A spray solution of 1% [10lt spray mixture] should be sufficient to control weeds in a 100 sq. m area.

SURFACTANTS:

The addition of Bladbuff 5 (Reg. No. L3351, Act No. 36 of 1947. Registrasion holder Plaaksem) to the tank mix is recommended.

CONTROL OF PERENNIAL WEEDS:

1.1 GRASSES		DOSAGE RATE		REMARKS
BOTANICAL NAME	COMMONNAME	Kg / ha	% Soln	
<i>Cynodon dactylon</i>	Common couch	4,3	--	Summer rainfall region: Apply to active growth in autumn or summer. If re-growth occurs, spray with 1,0 % solution.
		6,5	--	
<i>Paspalum dilatatum</i>	Common Paspalum	4,3	3,0	Winter rainfall region: As above in autumn.
<i>Sorghum halepense</i>	Johnson grass	2,9	2,0	Apply in summer at flower but before seed drop. If re-growth occurs, spray with 1,5 % solution.
				Apply to actively growing plants in autumn or summer. If re-growth occurs, spray with 1,0 % solution

1.2 SEDGES		DOSAGE RATE		REMARKS
BOTANICAL NAME	COMMONNAME	Kg / ha	% Soln	
<i>Cyperus esculentus</i>	yellow nutsedge	4,3	--	Apply in summer at pre-flowering stage. If re-growth occurs, spray with 1,5 % solution or 2,2 kg / ha. (Best results in Feb/March)
<i>Cyperus rotundus</i>	purple nutsedge	4,3	--	

2. CONTROL OF ANNUAL WEEDS:

2.1 BROADLEAF WEEDS:

The following broadleaf weeds will be controlled at the rates and growth stages as indicated below.

Erase Granule [kg / ha]		
0,75 – 1,5 kg	1,5 kg	2,2 kg / ha
1 - 12 leaf	12 leaf to pre-bloom	Flowering
<i>Alternanthera pungens</i>	Khaki bur weed	
<i>Amaranthus hybridus</i>	Cape pigweed	
<i>Amaranthus spinosus</i>	Thorny pigweed	
<i>Amaranthus thunbergii</i>	Red pigweed	
<i>Arctotis venusta</i>	Free State daisy	
<i>Argemone subfusiformis</i>	Mexican poppy	
<i>Bidens pilosa</i>	Black jack	
<i>Chenopodium album</i>	White goosefoot	
<i>Chenopodium ambrosioides</i>	American goosefoot	
<i>Chenopodium carinatum</i>	Green goosefoot	
<i>Chenopodium murale</i>	Nettle-leaved goosefoot	
<i>Cirsium arvense</i>	Canada thistle	
<i>Citrullus lanatus</i>	Bitter apple	
<i>Conyza albida</i>	Tall fleabane	
<i>Datura ferox</i>	Large thorn apple	
<i>Datura stramonium</i>	Thorn apple	
<i>Galinsoga parviflora</i>	Gallant soldier	
<i>Gisekia pharnaceoides</i>	Gisekia	
<i>Lepidium africanum</i>	Pepper cress	
<i>Physalis angulata</i>	Wild gooseberry	
<i>Portulaca oleracea</i>	Common purslane	
<i>Pseudognaphalium luteo-album</i>	Jersey cudweed	
<i>Pseudognaphalium undulatum</i>	Cudweed	
<i>Richardia brasiliensis</i>	Tropical Richardia	
<i>Pentzia grandiflora</i>	Karoo bush	
<i>Schkuhria pinnata</i>	Dwarf marigold	
<i>Sonchus asper</i>	Spiny sowthistle	
<i>Spergula arvensis</i>	Corn spurry	
<i>Tagetes minuta</i>	Tall khaki bush	

2.2 GRASSES:

The following grasses will be controlled at the rates and growth stages as indicated below.

Erase Granule [kg / ha]		
1,0 – 1,5 kg / ha		2,2 kg
1 leaf to pre-bloom		Flowering
<i>Digitaria ciliaris</i>	Crab finger grass	
<i>Digitaria sanguinalis</i>	Crab finger grass	
<i>Eleusine indica</i>	Goose grass	
<i>Eleusine coracana</i>	Goose grass	
<i>Panicum schinzii</i>	Sweet buffalo grass	
<i>Setaria verticillata</i>	Sticky bristle grass	

WAARSKUWINGS:

Giftig indien ingeneem word.

Voorkom kontak met vel of oë aangesien produk oog en vel irritasie kan veroorsaak.

Bewaar weg van voedsel, voer, kunsmis en ander chemikalieë.

Hou buite bereik van kinders, oningeligte persone en diere.

TOX GROEP III:

Herbetreding: Moet nie behandelde gebied betree alvorens die spuitneerslag droog is nie, tensy beskermende oorklere gedra word.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale grond-, klimaats - en bergingstoestande; kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weerstand van die onkruid teen die betrokke middel, sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing, of vir nadelige effek op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in die geval van enige onsekerheid.

VOORSORGMAATREËLS:

Moet nie eet, drink of rook terwyl die produk hanteer word nie.

Vermyn besoedeling van voedsel, voer, drinkwater en eetgerei.

Was uself na toediening of per abuisie velkontak.

Trek gekontameneerde kleres uit en was dit.

Moet nie spuitnewel inasem nie.

Vermyn kontak met die spuitstof sover moontlik.

Vermyn oorwaai na ander gewasse, weiding, riviere, damme en gebiede wat nie onder behandeling is nie.

Maak spuittoerusting deeglik skoon na gebruik en gooi waswater waar dit nie gewasse, weiding, riviere of damme sal besoedel nie.

Vernietig leë houers en moet dit nie vir enige ander doel gebruik nie.

'n Oormaat vorming van skuim mag ondervind word wanneer die hoër aanwendingsdosis of oplossing gebruik word tydens toediening. Dit word aanbeveel dat 'n geskikte teen-skuimvormende middel vooraf in die vermengingshouer gevoeg word in dien dit nodig blyk te wees alvorens Erase Granule bygevoeg word.

WEERSTANDSWAARSKUWING:

Erase Granule is 'n groep G onkruidodder. Enige populasie van 'n spesifieke onkruid spesie mag individue insluit wat 'n natuurlike weerstand teen **ERASE Granule** of enige ander groep G onkruidodders het. Indien hierdie onkruidodders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruid populasie oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **ERASE Granule** of enige ander groep G onkruidodders beheer word nie. **Die volgende spesies/onkruid mag weerstand toon teen Glifosaat in sekere areas: *Conyza spp* (Skraalhans), *Lolium spp* (Raaigras), *Plantago lanceolata* (Smal weëblaar/tongblaar)**

Om weerstand teen onkruidodders te vertraag:

- Vermyn die eksklusiewe herhaaldelike gebruik van onkruidodders met dieselfde groeppode. Wissel of met, of gebruik tenkmengsels van produkte in verskillende onkruidodder groeppodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in onkruidodder programme.

Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk

GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui.

1. Gebruik slegs skoon water vir spuitmengsel.
2. Maak altyd seker dat spuitapparaat skoon, vry van afsaksels, ens. is en korrek gekalibreer is voordat bespuit word.
3. Gebruik lae spuitdruk (100 - 200 kPa) om die vorming en wegwaai van spuitnewel te voorkom.
4. **Erase Granule** word geabsorbeer deur onvolwasse bas en die blare van meeste plante en bome. Kontak met dele wat nie volwasse bas op die hoofstam het nie, soos bome jonger as drie jaar kan ernstige gelokaliseerde en getranslokeerde skade veroorsaak. **DAAROM MOET KONTAK MET BLARE, GROEN OF ONVOLWASSE BAS EN VRUGTE DEUR DIREKTE KONTAK OF SPUITNEWEL VERMY WORD. MAAK ALTYD SEKER DAT SLEGS ONGEWENSTE PLANTE BESPUIT WORD.**

Moet nie toedien in gesnoeide wingerde en vrugtebome voordat die snoeiwonde behoorlik geseël het nie. **Erase Granule** is 'n nie-selektiewe sistemiese onkruiddoder wat slegs aktief is indien dit op die blare en groen bas van plantegroei toegedien word. Die sigbare effek van **Erase Granule** op behandelde plantegroei is gewoonlik 10-14 dae na behandeling sigbaar maar kan wissel afhangende van weerstoestande. Gebruik **Erase Granule** op aktiefgroeiende plante wat nie rustend of onder temperatuur- of vogstremming verkeer nie. Reën of besproeiing 'n paar dae voor 'n behandeling, verseker dat die onkruid aktief groei en dat onkruidbeheer optimaal is. Reën of besproeiing binne 6 uur na behandeling kan die doeltreffendheid verminder. Moet nie op swaar stofbedekte onkruidblare toedien nie. Dien **Erase Granule** in hierdie geval slegs toe nadat stof deur reën afgewas is. Aangesien **Erase Granule** geen vooropkoms- aktiwiteit op onkruid het nie, sal herhaalde toedienings nodig wees (wanneer alleen toegedien) om seisoenlange beheer te verseker. Verseker dat teikenonkruid volledig blootgestel word aan die bespuiting.

GEBRUIKSBEPERKING:

Wanneer Erase Granule gebruik word in 'n landvoorbereidings aksie by die uitplant of saai van Tamatie-, Tabak- of enige ander gewas wat se stammetjie groen en sag is, moet 'n minimum periode van 14 dae verloop tussen bespuiting en die uitplant van die saailinge.

MENGINSTRUKSIES:

Plaas 'n 20 to 30 maas sif oor die vulopening. Maak die spuittenk halfvol met skoon water. Voeg die korrekte hoeveelheid **Erase Granule** by. Maak die tenk met skoon water vol tot by die verlangde volume. Verseker deeglike roering. In geval van tenkmengsels, moet die bykomende onkruiddoder na **Erase Granule** in die tenk bygevoeg word en aanhoudend geroer word voor en tydens toediening.

TOEDIENING:

Maak altyd seker dat spuittoerusting skoon en vry van roesplekke en stof is. Verwyder aanpaksels bv. reste van benatbare poeiers in spuittenks voor gebruik. Voorkom die gebruik van modderige of brak water wat 'n hoë kolloidale-inhoud het wat afkomstig is van grond met 'n hoë organiese materiaalinhoud. Dit is nie nodig om **Erase Granule** toe te dien tot die punt van afloop nie maar 'n egalige eweredige plantbedekking is noodsaaklik. **EGALIGE TOEDIENING IS NOODSAAKLIK VIR GOEIE RESULTATE.**

GRONDTOEDIENING:

Erase Granule kan deur middel van konvensionele rugsakspuit toegedien word. Waar spuitstofwegdrywing 'n probleem is moet die druk nie 2 bar oorskry nie.

TOEDIENINGSHOEVEELHEDE:

Erase Granule sal die meeste eenjarige onkruid wat van saad ontkiem, na-opkoms beheer in situasies soos onbewerkte landerye, voor plant van gewasse, verminderde of deklaagbewerking, meerjarige wingerd- en boomgewasse en in industriële gebiede.

Dien **Erase Granule** volgens die groeistadium van onkruid toe. Gebruik die hoër dosisaanbevelings in die reeks vir ouer en meer gevestigde onkruid in die spesifieke groeistadium.

KLEINBOER TOEDIENINGSINSTRUKSIES:

Een liter spuitmengsel moet toegedien word op onkruid in 'n area van nie minder as 10 vk.m. 'n Spuitmengsel oplossing van 1% [10lt spuithouer] sal in area vol onkruid van 100 vk. m beheer .

Bevorderingsmiddels :

Die byvoeging van Bladbuff 5 (Reg. Nr. L3351, Wet Nr. 36 van 1947. Registrasiehouer Plaaksem) tot die spuittenk word aanbeveel.

1. BEHEER VAN MEERJARIGE ONKRUIDE:

1.1 GRASSE		DOSIS		OPMERKINGS
	GEWONE NAAM	kg / ha	% Oplossing	
<i>Cynodon dactylon</i>	Gewone kweekgras	4,3	--	Somerreënvalgebied: Dien toe in herfs of somer op aktief-groeiende plante. Indien hergroei voorkom spuit met 1,0 % oplossing. Winterreënvalgebied: Dien toe op aktiefgroeiende plante in somer of herfs. Dien toe in somer tydens blom maar voor saadval. Indien hergroei voorkom spuit met 1,5 % oplossing. Dien toe in herfs of somer op aktief-groeiende plante. Indien hergroei voorkom spuit met 'n 1,0 % oplossing
		6,5	--	
<i>Paspalum dilatatum</i>	Gewone Paspalum	4,3	3,0	
<i>Sorghum halepense</i>	Johnsongras	2,9	2,0	

1.2 UINTJIES		DOSIS		OPMERKINGS
BOTANIESE NAAM	GEWONE NAAM	kg / ha	% Oplossing	
<i>Cyperus esculentus</i>	Geeluintjie	4,3	---	Dien toe in somer voor blomstadium. Indien hergroei voorkom spuit met 1,5 % oplossing of 2,2 kg / ha. (Beste resultate in Feb / Maart).
<i>Cyperus rotundus</i>	Rooiuintjie	4,3	---	

2. BEHEER VAN EENJARIGE ONKRUIDE:

2.1 BREËBLAARONKRUIDE:

Die volgende breëblaaronkruide sal beheer word teen die dosisse en groeistadiums soos hieronder aangedui.

Erase Granule [kg / ha]		
0,75 – 1,5 kg / ha	1,5 kg / ha	2,2 kg / ha
1 - 12- blaar	12- blaar tot voorblom	Blom
<i>Alternanthera pungens</i>	Kakiedubbeltjie	
<i>Amaranthus hybridus</i>	Kaapse misbredie	
<i>Amaranthus spinosus</i>	Doringmisbredie	
<i>Amaranthus thunbergii</i>	Rooimisbredie	
<i>Arctotis venusta</i>	Witgousblom	
<i>Argemone subfusiformis</i>	Witblom bloudissel	
<i>Bidens pilosa</i>	Knapsekêrel	
<i>Chenopodium album</i>	Withondebossie	
<i>Chenopodium ambrosioides</i>	Kruiehondebossie	
<i>Chenopodium carinatum</i>	Groen hondebossie	
<i>Chenopodium murale</i>	Muurhondebossie	
<i>Cirsium arvense</i>	Kanada-dissel	
<i>Citrullus lanatus</i>	Karkoer	
<i>Conyza albida</i>	Vaalskraalhans	
<i>Datura ferox</i>	Grootstinkblaar	
<i>Datura stramonium</i>	Stinkblaar	
<i>Galinsoga parviflora</i>	Roerkruid	
<i>Gisekia pharnaceoides</i>	Knopkruid	
<i>Lepidium africanum</i>	Gisekia	
<i>Physalis angulata</i>	Peperbossie	
<i>Portulaca oleracea</i>	Wildeappelliefie	
<i>Pseudognaphalium luteo-album</i>	Gewone porslein	
<i>Pseudognaphalium undulatum</i>	Roerkruid	
<i>Richardia brasiliensis</i>	Tropiese Richardia	
<i>Pentzia grandiflora</i>	Stinkkruid	
<i>Schkuhria pinnata</i>	Kleinkakiebos	
<i>Sonchus asper</i>	Doringsydissel	
<i>Spergula arvensis</i>	Sporrie	
<i>Tagetes minuta</i>	Langkakiebos	

2.2 Grasse:

Die volgende grasse sal beheer word teen die dosisse en groeistadiums soos hieronder aangedui:

Erase Granule [kg / ha]		
1,0 – 1,5 kg / ha		2,2 kg
1 blaar tot voor blom		Blom
<i>Digitaria ciliaris</i>	Kruisvingergras	
<i>Digitaria sanguinalis</i>	Kruisvingergras	
<i>Eleusine indica</i>	Jongosgras	
<i>Eleusine coracana</i>	Jongosgras	
<i>Panicum schinzii</i>	Soet buffelsgras	
<i>Setaria verticillata</i>	Klitsborselgras	