

ERASE GRANULE

Reg. No./Nr. L7948, Act No. / Wet Nr. 36 of / van 1947
Botswana Reg. No./Nr. W130558, Act. No. 18 of 1999



READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

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 Nie-selektiewe wateroplosbare korrel, blaartoegediende sistemiese onkruidodder vir die beheer van verskeie eenjarige en meerjarige gras-, breëblaaronkruid en sekere houtagtige onkruid soos aangedui in landboukundige, nie-bewerkte- en nywerheidsgebiede.

GROUP/GROEP

9

HERBICIDE/ONKRUIDDODER

ACTIVE INGREDIENT:

AKTIEWE BESTANDDEEL:

Glyphosate500 g/kg.....Glifosaat

Glyphosate (Sodium salt).....588 g/kg.....Glifosaat (Natriumsout)

NET CONTENTS

KG

NETTO INHOUD



DANGER

GHS HAZARD STATEMENTS

Causes skin irritations.

Causes serious eye damage.

Toxic to aquatic life with long lasting effects.

GHS PRECAUTIONARY STATEMENTS

Do not breathe dust / spray.

Wash thoroughly after handling



REGISTRATION HOLDER / REGISTRASIEHOUER:

Nulandis® (A division of AECI Limited)/ Nulandis® ('n Afdeling van AECI Beperk)

Reg. No. / Nr. 1924/002590/06

P.O. Box / Posbus 14418

Witfield, 1467

Tel : (011) 823 8000

www.aeciph.com/ www.aeciworld.com

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL;
0861 555777 / 082 446 8946

Batch No:

Lotnommer:

DATE OF MANUFACTURE:

VERVAARDIGINGSDATUM:

UN No. / VN Nr. 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Glyphosate)

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WARNINGS:

GHS HAZARD STATEMENTS

Causes skin irritations.

Causes serious eye damage.

Toxic to aquatic life with long lasting effects.

Poisonous if swallowed.

Avoid contact with skin or eyes since product is an eye and skin irritant.

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

Keep out of reach of children, uninformed persons and animals

Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing. In case of poisoning – CALL A DOCTOR AND MAKE THIS LABEL AVAILABLE TO HIM/HER.

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 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:

GHS PRECAUTIONARY STATEMENTS

Do not breathe dust / spray.

Wash thoroughly after handling.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical help.

Avoid release to the environment.

Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and changing clothes.

Wash yourself after use or accidental skin contact. Rinse eyes immediately with running water.

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

Avoid contact with the spray mist 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.

Shake all the pesticide formulation of the container into the spray or mixing tank or if it is directly dispensed onto treatment areas, over the area. Turn the bag or box inside out. Hold the bag over the spray or mixing tank or treatment area and rinse bag or box with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Cut the bag or box into pieces and dispose of via normal refuse disposal. Do not burn, bury or donate the bag or box to any other parties that may use it as a container for food.

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

RELEVANT SUBSTANCES:

Substance name (IUPAC/EC)	Concentration % by weight	Classification EC1272/2008
Glyphosate	50-60%	Serious eye damage (Category 1) Aquatic chronic 2.
Sodium carbonate	30-40%	Skin irritant (Category 2).
Ammonium quaternary compound	10-20%	Eye irritation (Category 2).

NOTE: The other ingredients not included above, do not cause or contribute towards the correct GHS classification of **ERASE GRANULE** and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021; Regulation 14(b), not listed.

FIRST AID

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation persists.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

In case of ingestion: Immediately transfer patient to nearest hospital or medical centre, warning by telephone of the estimated arrival time so that the start of treatment is not delayed. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if irritation persists.

NOTE TO PHYSICIAN:

Treat symptomatically.

RESISTANCE WARNING:

For resistance management, **ERASE GRANULE** is a Group Code 9 herbicide. Any weed population may contain individuals naturally resistant to **ERASE GRANULE** and other Group Code 9 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 Code 9 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

MODE OF ACTION:

The mode of action of Glyphosate is by inhibition of 5-enolpyruvylshikimate-3-phosphate synthase(EPSPS), an enzyme of the aromatic acid biosynthetic pathway.

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 UNDESIRE 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 it is necessary to repeat applications (when applied on its own) to control weeds germinating from seed. Ensure that target weeds are fully exposed to the **ERASE GRANULE** spray.

USE 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. After application of **ERASE GRANULE**, wait 3-4 weeks before sowing seeds in no-till fields or areas with a high organic matter content.

COMPATIBILITY:

ERASE GRANULE is compatible with **BLADBUFF 5** (Reg. No. L3351 outside of South Africa) and **BLADBUFF 7** (Reg. No. L8121).

However, its compatibility with other agricultural remedies have not yet been proven. This may be influenced by several factors. As certain factors may vary from farm to farm, a physical compatibility test must always be performed before such a tank mixture is sprayed. For more information on compatibility or in the event of uncertainty, contact your local Nulandis representative.

MIXING INSTRUCTIONS:

Place a 20 to 30 mesh screen over filling port. Half fill the spray tank with clean water and add the required amount of **ERASE GRANULE** to the water in the tank while agitating. Fill the tank to the required volume with clean water, ensuring thorough agitation. When tank mixing **Erase Granule** with other products, it is recommended that the **ERASE GRANULE** be added before the other products. Always refer to the respective manufacturer's label "Warnings", using tank mixtures. The additional herbicide/s should be added after **ERASE GRANULE** and agitation must continue before and during spraying. Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight. Spraying equipment must be thoroughly flushed out at the end of the spraying operation.

APPLICATION:

Remove sediments e.g, 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 m². A spray solution of 1% [10 l spray mixture] should be sufficient to control weeds in a 100 m² area.

SURFACTANTS:

The addition of either **Bladbuff 7** (Reg. No. L8121, Act No. 36 of 1947) to the mixture is recommended.

CONTROL OF PERENNIAL WEEDS:

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

SEDGES		DOSAGE RATE		REMARKS
BOTANICAL NAME	COMMON NAME	kg / ha	% Soln	
<i>Cyperus esculentus</i>	yellow nutsedge = yellow watergrass	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 February/March)
<i>Cyperus rotundus</i>	purple nutsedge = red watergrass	4,3	--	

CONTROL OF ANNUAL WEEDS:

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/ha	1,5 kg/ha	2,2 kg/ha
1 to 12-leaf stage	12-leaf stage to pre-bloom	Flowering
<i>Alternanthera pungens</i> <i>Amaranthus hybridus</i> <i>Amaranthus spinosus</i> <i>Amaranthus thunbergii</i> <i>Arctotis venusta</i> <i>Argemone subfusiformis</i> => <i>Argemone ochroleuca</i> <i>Bidens pilosa</i> <i>Chenopodium album</i> <i>Chenopodium ambrosioides</i> <i>Chenopodium carinatum</i> <i>Chenopodium murale</i> <i>Cirsium arvense</i> <i>Citrullus lanatus</i> <i>Conyza albida</i> <i>Datura ferox</i> <i>Datura stramonium</i> <i>Galinsoga parviflora</i> <i>Gisekia pharnaceoides</i> <i>Lepidium africanum</i> <i>Physalis angulata</i> <i>Portulaca oleracea</i> <i>Gnaphalium luteo-album</i> <i>Gnaphalium undulatum</i> <i>Richardia brasiliensis</i> <i>Pentzia grandiflora</i> <i>Schkuhria pinnata</i> <i>Sonchus asper</i> <i>Spergula arvensis</i> <i>Tagetes minuta</i>	Khaki bur weed = Paper thorn Common pigweed Thorny pigweed Red pigweed Free State daisy White-flowered Mexican poppy Blackjack White goosefoot Wormseed Goosefoot Green goosefoot Nettle-leaved goosefoot Canada thistle White watermelon Tall fleabane Large thorn apple Thorn apple Gallant soldier Gisekia Pepper cress Wild gooseberry Common purslane Jersey cudweed Undulate cudweed Tropical Richardia Stinkweed Dwarf marigold Spiny sowthistle Corn spurry Khaki weed	

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 /ha
1-leaf stage to pre-bloom		Flowering
<i>Digitaria adscendens</i> => <i>Digitaria ciliaris</i>	Tropical finger grass	
<i>Digitaria sanguinalis</i>	Crab finger grass	
<i>Eleusine indica</i> => <i>Eleusine coracana</i>	Goose grass	
<i>Panicum schinzii</i>	Sweet buffalo grass	
<i>Setaria verticillata</i>	Sticky bristle grass	

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BLADBUFF® 5 is the registered trademark of AECI® Limited. Only available in countries outside of South Africa

