

GLOCK GEL

Reg. No. / Nr L11914 Act No. 36 of 1947 / Wet Nr 36 van 1947

GROUP

4

HERBICIDE

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

A ready-to-use water based gel, paint-on systemic herbicide for the control of woody weeds as listed in grazing, conservation, and on non-crop areas.

'n Gereed-vir-gebruik water gebaseerde, aanverfbare, sistemiese gel onkruidodder vir die beheer van houtagtige plante soos gelys in weidings en bewarings en nie gewas gebiede.

Active Ingredients / Aktiewe Bestanddele

Picloram	contains 50 g a.i. per kg	Pikloram
(Pyridine carboxylic acid as potassium salt)		(Piridienkarboksiesuur as kaliumsout)
Triclopyr	contains 50 g a.i. per kg	Triklopir
(Pyridine carboxylic acid as triethylammonium salt)		(Piridienkarboksiesuur as trietielammonium sout)



DANGER

Hazard Statements

Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.

Precautionary Statements

Avoid breathing dust / fumes / gas / mist / vapours / spray.
Wear protective gloves / eye protection / face protection.
IF ON SKIN: Wash with plenty of water/soap.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



REGISTRATION HOLDER / REGISTRASIEHOUER:

Agritech Bioscience (Pty) Ltd / (Edms) Bpk t/a Carabiner
Reg. No. 2008/004392/07
6 Antwerp Street, Apex, Benoni,
1540
South Africa / Suid-Afrika



Batch No./Date manufactured/Expiry date: Refer to details printed on container.

UN No. / VN Nr. 3077

Net volume kg Netto Volume

In case of poisoning, call the following numbers:

Poisons Information Helpline: +27 861 555 777

EMERGENCY NUMBER: +27 82 446 8946

WARNINGS

- GHS Hazard statements

Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.

- Harmful if swallowed.
- Avoid contact with eyes, product may cause severe eye irritation.
- Avoid contact with skin, product may cause sensitization.
- Concentrate may cause eye and skin irritation.
- **RE-ENTRY:** Do not enter a treated area within 2 days after treatment unless wearing protective clothing.
- **In case of poisoning immediately call a physician and make this label available to him/her.**

DISCLAIMER

Although this remedy has been 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 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

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read carefully and follow all instructions.
Avoid breathing dust/fumes/gas/mist/vapours/spray.
Wash hands and face thoroughly after handling. Do not touch eyes.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves / eye protection / face protection.
IF ON SKIN: Wash with plenty of water/soap.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical help.
Specific treatment (see FIRST AID TREATMENT on this label).
If skin irritation or rash occurs: Get medical help.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Dispose of contents/container in accordance with national regulations.

- OPERATOR PROTECTION
 - Handle with care.
 - Do not inhale spray mist or fumes.

- Wash with soap and water after use and accidental skin contact as well as contact with contaminated clothing.
 - Avoid skin and eye contact by wearing protective clothing (overall, eye protection and rubber gloves) when mixing and applying the product.
 - In case of accidental skin contact, wash the affected area immediately and thoroughly with soap and water.
 - Should eye contact occur, flush the eyes with plenty of clean water for 15 minutes holding eyelids open. Remove contact lenses after five minutes of irrigation. **Seek medical attention.**
 - Wash contaminated clothing after use.
 - Do not eat, drink, or smoke while mixing or applying the product or before washing hands and face.
- **ENVIRONMENTAL PROTECTION**
 - Do not contaminate dams, rivers, lakes, or any other water sources.
 - Avoid drift of spray onto non-target plants, grazing, rivers, dams, and areas not under treatment.
 - Do not allow chemical residues and spillages to contaminate susceptible crops, grazing, rivers, dams, and areas not to be treated.
 - Clean the applicator with clean water directly after use. Dispose of the rinsate where it will not contaminate crops, grazing, rivers, dams, and boreholes.
 - Do not use contaminated / treated plants, grass etc. as compost or animal feed.
- **STORAGE AND DISPOSAL**
 - Store under lock and key in the original container in a cool, dry place out of direct sunlight.
 - Store away from food, feed, fertilizer, and seed.
 - Clean the paint brush thoroughly after use and use for herbicide applications only. Dispose of the wash water responsibly to prevent contamination of the environment and water sources or susceptible vegetation.
 - Do not wash the paint brushes near desirable trees or plants where their roots may extend.
 - **KEEP OUT OF SIGHT AND REACH OF CHILDREN**, uninformed persons, untrained personnel, unauthorised personnel and animals.
 - Do not allow access to this product by children, uninformed persons, untrained personnel, unauthorised personnel, or animals under any circumstances.
 - Prevent contamination of food, feeds, drinking water and eating utensils.
 - Containers and packages must be completely emptied before disposal.
 - **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter, rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Destroy the triple rinsed container by perforation and flattening and do not use for any other purpose. Store appropriately until it can be disposed of via an approved collector or recycler authorised to recycle or destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations. Empty containers and product should not be burnt. Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

RELEVANT SUBSTANCES

Hazardous Ingredients	Concentration (w/v)
Picloram as potassium salt	5%
Triclopyr as triethylammonium salt	5%
Ethylene glycol	>1 - < 15%

Dodecylbenzene sulphonic acid	>1 - < 15%
Rheology modifier	>1 - < 15%

FIRST AID TREATMENT

If medical advice is needed, have product container or label at hand. Provide medical personnel with the product container, label or safety data sheet (SDS) when seeking medical attention.

General Information: Remove patient from exposed area. Never give fluids or induce vomiting if the patient is unconscious or is having convulsions.

Inhalation: Remove patient to fresh air. Loosen clothing around neck. Lie down and keep patient calm, warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. **Seek medical attention immediately.**

Skin contact: Immediately flush body and clothes with large amounts of flowing water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. **Seek medical attention.**

Eye contact: Flush eyes with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses if present, after first 5 minutes, and then continue rinsing. **Seek medical attention immediately.**

Ingestion: Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre. **Seek medical attention immediately.**

The decision of whether to induce vomiting or not should be made by an attending physician. If lavage is performed, endotracheal and/or oesophageal control is suggested. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient. For further information on the treatment of poisoning refer to the product Safety Data Sheet provided.

RESISTANCE MANAGEMENT WARNING STATEMENT

For resistance management, **GLOCK GEL** is a group code 4 herbicide. Any weed population may contain individuals naturally resistant to **GLOCK GEL** and other group code 4 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **GLOCK GEL** or any other group code 4 herbicide.

To delay herbicide resistance:

- Avoid the exclusive repeated use of herbicides from the same herbicide group code. Alternate, or tank mix, with registered products from different herbicide group codes. Large numbers of healthy surviving weeds can be an indication that resistance is developing. Efforts should be taken to prevent seed set of these survivors.
- Integrate other control methods (such as chemical, cultural, biological) into weed control programmes.
- Refer to the Herbicide Resistance Action Committee for information regarding any applicable resistance management of group 4 herbicides at <https://hracglobal.com/> for more information.
- Avoid distribution of the resistant species to adjacent fields by implements during the cultivation period.

As the occurrence of resistance cannot be forecast, users are advised to keep all treated crops under close observation. If the treatment is not effective following the use of **GLOCK GL** as recommended, a resistant strain may be present. If a resistant strain is positively identified, consideration should be given to the prompt use of a herbicide with a different mode of action against which no record of resistance exists.

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

The presence of resistant weeds is difficult to detect prior to use and therefore neither the Registration Holder nor the Distributor can accept responsibility for any losses as a result of **GLOCK GEL** not controlling resistant weeds. Do not apply **GLOCK GEL** alone in situations where weed resistance has been confirmed. Sub-standard application of **GLOCK GEL** or other pyridyloxy herbicides will lead to inferior weed control and may assist in development of herbicide resistance.

MODE OF ACTION

Picloram is a synthetic auxin (acting like indolylacetic acid). It is a selective systemic herbicide, which is absorbed rapidly by the roots and leaves and translocated both acropetally and basipetally, accumulating in new growth.

Triclopyr is a selective systemic herbicide, rapidly absorbed by the foliage and roots and then translocated throughout the plant. Triclopyr accumulates in the meristematic tissue where it induces auxin-type responses.

DIRECTIONS FOR USE - Use only as directed.

NOTICE TO USER: This agricultural remedy is to be used only in accordance with the instructions on the label. It is an offence under Act No. 36 of 1947 to use this agricultural remedy for any purpose in any manner contrary to the directions on the label.

USE RESTRICTIONS

- Do not apply **GLOCK GEL** to any situation not mentioned in this instruction leaflet.
- Only apply **GLOCK GEL** using an accurate and safe application technique.
- Do not treat areas where plants that are sensitive to the active ingredients, such as broadleaf crops, fruit and desirable indigenous trees and ornamentals may come into direct contact with the product or its residues.
- The active ingredients of **GLOCK GEL** can be absorbed by plant roots, thus avoid contact with soil in the root zone of desirable plants or with soil in which such plants are to be grown.
- Do not allow chemical residues and spillages to contaminate susceptible crops, grazing, rivers, dams, soil, susceptible plants, and areas not under treatment.
- Do not apply this product in combination or tank mixture with any other product or agricultural remedy which is not specifically listed on this label. Agritech Bioscience (Pty) Ltd t/a Carabiner accepts no responsibility for any negative effects experienced if the instructions on this label are not adhered to, unless a Carabiner representative was consulted beforehand.
- By buying this product, the buyer undertakes that the user is fully aware of and suitably trained on the hazards associated with the preparation and use of this product. By selecting this product voluntarily, the user assumes responsibility for his or her own personal protection whilst storing, mixing, and applying the product in the approved manner according to the instructions for use. The user also confirms to have consulted the SDS of this product and he/she is aware of the potential

health hazards which could arise out of use and misuse of this product. Users are encouraged to keep records of all procedures followed and which personal protection equipment was used at all times. All personal protection equipment used must be kept clean and in good working order according to the manufacturer's specifications. Agritech Bioscience (Pty) Ltd accepts no responsibility for any adverse effects experienced if the instructions on this label are not adhered to or resulting from improper use of this product or the use of unsuitable personal protection equipment. The user has selected to use this product at his/her own free will and risk.

MIXING INSTRUCTIONS

GLOCK GEL is a ready-to-use herbicide formulation. Ensure that the product is kept out of reach of children, uninformed persons, untrained personnel, unauthorised personnel and animals.

APPLICATION METHODS

GLOCK GEL is a ready-to-use herbicide formulation that is applied directly, by means of a paint brush, to cuts made into undesirable woody plants. **GLOCK GEL** has a distinctive, long-lasting colour and requires no additional surfactants or colorants to improve efficacy or visibility. As it is applied accurately and in a controlled fashion to selected plants, the potential for off-target damage is limited except where it is used within the root zone of non-target plants.

Apply immediately after felling, but definitely within 3 hours.

GLOCK GEL should not be applied to the stump if the surface is wet.

APPLICATION RATES

SPECIES	DOSAGE RATE	REMARKS
Black locust (<i>Robinia pseudoacacia</i>)	1 – 2 mm layer to the entire exposed surface.	Apply GLOCK GEL by means of a flexible 25 – 50 mm paint brush. Cut trees and/or shrubs no higher than 10 cm above soil level. Apply the layer of GLOCK GEL directly onto the stumps of freshly cut trees. Be sure to treat the entire cut surface of each stump within 10 minutes of felling. Be sure to treat every shoot in the case of multi-stemmed plants. Wipe the exposed stump surface to remove saw dust prior to application. Do not apply if rain is possible within 2 hours of application. Do not treat bark on the sides of targeted stumps.
Black wattle (<i>Acacia mearnsii</i>)		
Blackthorn (<i>Senegalia mellifera</i>)		
Bugweed (<i>Solanum mauritianum</i>)		
Grey poplar (<i>Populus canescens</i>)		
Grewia spp. (<i>Grewia</i> spp.)		
Inkberry (<i>Cestrum laevigatum</i>)		
Lantana (<i>Lantana camara</i>)		
Magic guarii (<i>Euclea divinorum</i>)		
Mopane (<i>Colophospermum mopane</i>)		
Port Jackson Willow (<i>Acacia saligna</i>)		
Sickle bush		

<i>(Dichrostachys cinerea)</i>		
Silver clusterleaf <i>(Terminalia sericea)</i>		
Sweet thorn <i>(Vachellia karroo)</i>		
Syringa <i>(Melia azedarach)</i>		
Umbrella thorn <i>(Vachellia tortilis)</i>		
Vaalbos <i>(Tarconanthus camporatus)</i>		
Sand olive <i>(Dudonea angustifolia)</i>		

Approximate rates

The table below indicates the approximate amount of **GLOCK GEL** that should be applied to cut stumps with different diameters.

Tree/stump diameter class (mm)	Average diameter (mm)	GLOCK GEL 1 mm layer to cover the entire cutting plane (g/stump)
10 - 15	12.5	0.33
20 - 30	25	0.71
40 - 50	45	1.84
50 - 75	62.5	2.2
75 - 100	87.5	5

The registration holder is not responsible for weeds not listed.

Due to the systemic nature of the active ingredients, roots of treated plants may exude certain levels of the active substances which may then be absorbed by roots of neighboring plants resulting in undesirable effects. Subterranean root grafting is a natural phenomenon which is not visible above ground and therefore damage to neighboring plants may occur. Other woody weeds not listed above may be killed or severely injured by direct or indirect application of **GLOCK GEL** to listed weeds.