


# LENNS®



Reg. no. L10935 Act/Wet 36 of/van 1947

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

GROUP	9 & 12	HERBICIDE
A suspension concentrate, non-selective, systemic herbicide for the post-emergence control of certain broadleaf weeds in stone fruit.		'n Suspensiekonsentraat, nie-selektiewe, sistemiese onkruidodder vir die naopkomsbeheer van sekere breëblaaronkruid in steenvrugte.

 <b>WARNING</b>	<b>Hazard statements</b> Very toxic to aquatic life with long lasting effects.
	<b>Precautionary statements</b> Collect spillage. Avoid release to the environment.

### ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

glyphosate (glycine) .....	250 g/L	..... glifosaat (glisien)
diflufenican (nicotinanilide) .....	40 g/L	..... diflufenikan (nikotienaniliede)

### NET VOLUME/NETTO VOLUME

..... L

**REGISTRATION HOLDER/REGISTRASIEHOUER**  
 ADAMA South Africa (Pty) Ltd; Reg. no. 1992/001741/07  
 Ground Floor, Simeka House  
 The Vineyard Office Estate, 99 Jip de Jager Drive  
 Belville, 7530  
 T: +27 21 982 1460, infocpt@adama.com

UN no.: 3082

**In case of poisoning, call the following numbers:**  
 Griffon Poison Information Centre: +27 82 446 8946 or  
 Tygerberg Poison Information Centre: +27 861 555 777

**Emergency number:**  
 SPILL TECH: +27 86 100 6366 or +27 83 253 6618

Batch number .....

Date of manufacture .....

Expiry date .....

Lotnommer

Datum van vervaardiging

Vervaldatum



## WARNINGS

- Very toxic to aquatic life with long lasting effects.

**Withholding periods** (minimum number of days between last application and harvest):

**Stone fruit** ..... 35 days

- Handle with care.
- Store in the closed, original container in a locked, cool, well-ventilated area, away from direct sunlight.
- Do not mix, store or apply in galvanized steel or unlined steel (except stainless steel) containers, as a reaction will produce hydrogen gas which is highly combustible.
- Store away from food, feeds, seed and other agricultural chemicals.
- **Re-entry:** Do not enter treated area until spray deposit has dried, unless wearing protective clothing.
- Do not apply **LENNS®** from the air.

**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, and the environment or harm to humans or animals 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 or registration holder in the event of any uncertainty.**

## PRECAUTIONS

- Keep out of reach of children.
- Avoid release to the environment.
- Rinse mouth.
- Collect spillage.
- Dispose of contents/container in accordance with national regulation.

- Do not breathe in fumes, gas, mist, vapours or spray mist.

- Do not eat, drink or smoke while handling this product, or before washing the face and hands after handling the product.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Wear protective clothing, rubber gloves, and tight-sealing goggles when handling and using the concentrate or the prepared product.
- Avoid skin contact. After accidental skin contact wash immediately with plenty of water and soap.
- Wash hands thoroughly after handling the product.
- Wash contaminated clothing after use.
- Avoid spray drift onto other crops, grazing, rivers, dams and areas not under treatment, as this may result in serious crop damage.
- Since the use of the product poses a risk to aquatic life, the spray mixture must not be allowed to settle within 2 m of the top of the bank of any static or flowing body of water or the top of a ditch which is dry at the time of application.
- Clean applicator after use.
- Dispose of wash water where it will not contaminate crops, grazing, rivers, dams, boreholes or non-target areas.
- 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 container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy the container by perforation or flattening before disposing of the container in the prescribed manner. NEVER re-use the empty container for any purpose.

## RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Glyphosate	10 – 30%	1071-83-6
Isopropylamine	<10%	75-31-0
Diflufenican	<10%	83164-33-4
Ethoxylated phosphate ester butanol,	<10%	50769-39-6
Ethoxylated phosphate ether alcohols	<10%	68130-47-2
Orthophosphoric acid	<10%	7664-38-2



## FIRST AID

In case of accident or unwellness, seek medical advice immediately. Provide this label and SDS to medical personnel for treatment. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination.

Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and covered up. First Aid personnel should pay attention to their own safety.

Take the container label or product name with you when seeking medical attention.

**Eye contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. If symptoms persist, call a physician.

**Skin contact:** Remove all contaminated clothing and shoes. Rinse the skin immediately with plenty of water for 15 to 20 minutes under the safety shower. Consult a physician if necessary.

**Inhalation:** Immediately remove the affected victim from exposure to an area with fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain immediate medical attention; call a physician.

**Ingestion:** Call a poison control center or medical practitioner immediately for treatment advice. If conscious, rinse mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious or convulsing person. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. If symptoms persist, call a physician.

## TOXICOLOGICAL INFORMATION

### Antidotes

None known. Treat symptomatically.

### Symptoms of human poisoning

None known.

## RESISTANCE MANAGEMENT

For the purpose of resistance management, **LENNS**<sup>®</sup> is classified as HRAC group code 9 and 12 herbicide. Some naturally occurring weed biotypes resistant to **LENNS**<sup>®</sup> and other herbicides belonging to Group Code 9 and 12 herbicides may exist through normal genetic variability in any weed population. These resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by **LENNS**<sup>®</sup> and other Group Code 9 and 12 herbicides.



To delay herbicide resistance:

- Integrate tillage or other mechanical control methods (including the use of non-selective herbicides during the fallow period) into weed control programmes whenever practical.
- Avoid the repeated use of products in the same mode-of-action group. Plan crop rotations to allow the use of herbicides from different mode-of-action groups.

For further advice on the prevention of herbicide resistance, contact a local ADAMA representative.

## MODE OF ACTION

9: Inhibition of enolpyruvyl shikimate phosphate synthase – aromatic Amino Acid Synthesis Inhibitors

12: Inhibition of phytoene desaturase - pigment synthesis inhibitors.

## DIRECTIONS FOR USE

### Use only as directed.

NOTICE TO THE USER: This agricultural remedy is to be used only according to the directions of this label. It is an offense under the Act to use this product inconsistent with the directions on the label.

### General

- The herbicidal action of **LENNS**<sup>®</sup> might only become visible from two weeks after application onwards.
- Apply **LENNS**<sup>®</sup> in spring, after weed emergence, directing the application to the foliage and immature stems of the weeds.
- Apply **LENNS**<sup>®</sup> to actively and vigorously growing weeds. If weeds are under stress, for instance as a result of dry conditions or other adverse conditions (frost, hot dry winds, drought, heat, water logging, herbicide damage), adequate control may not be achieved.
- Efficacy of **LENNS**<sup>®</sup> can be reduced in older, larger weeds, and therefore the product should be applied before weeds reach a height of 20 to 30 cm.
- Application of **LENNS**<sup>®</sup> to weeds that are wet, dormant, under stress or covered in a layer of dust or damaged by frost could result in reduced efficacy of the product.
- Rain or irrigation within six hours of application could reduce the efficacy of **LENNS**<sup>®</sup>. At least six hours, but preferably 24 hours, of dry weather are required immediately following application for optimum control.
- **LENNS**<sup>®</sup> could damage the foliage, fruit or young stems of trees that have not become woody yet, but it does not pose a risk to tree trunks that are already woody and more hardened.
- Diflufenican can accumulate in the soil when **LENNS**<sup>®</sup> or other products containing diflufenican are applied in successive years. There could be a risk of damage to subsequent plantings after removal of the orchard, even if soils are thoroughly prepared.
- **LENNS**<sup>®</sup> could inhibit the growth of a cover crop in the treated area.

- Pre-emergence activity of **LENNS**<sup>®</sup> may be reduced if the soil organic matter content is greater than 10%, or if leaves have collected or a mat of organic matter has built up.
- The area treated with **LENNS**<sup>®</sup> should not be cultivated after application to ensure maximum persistence of activity of the product.
- **LENNS**<sup>®</sup> is corrosive to metals, except stainless steel. Use application equipment with tanks made of synthetic materials or stainless steel. Do not use iron vessels.
- When applying **LENNS**<sup>®</sup> in a tank mix with other chemicals, follow the label recommendations of all the products. Before tank mixing with other products, refer to the section 'Compatibility'.

## USE RESTRICTIONS

- Refrain from sprinkler irrigation for 12 hours after application. Do not apply **LENNS**<sup>®</sup> when rain is expected within six hours of spraying, as this will reduce efficacy.
- Avoid application if torrential or heavy rains shortly after applying **LENNS**<sup>®</sup> are expected as this may wash the product into the root zone and cause damage to the crop.
- Do not apply **LENNS**<sup>®</sup> to weeds that are not actively growing or to older, larger weeds that exceed 20 to 30 cm in height.
- Do not apply **LENNS**<sup>®</sup> in windy conditions.
- Do not apply **LENNS**<sup>®</sup> to weeds that are wet, dormant or under stress or covered in a layer of dust or damaged by frost, as this could reduce the efficacy of **LENNS**<sup>®</sup>.
- Do not apply **LENNS**<sup>®</sup> to orchards that are under stress from drought, excessive heat, frost, water logging or herbicide damage.
- Prevent spray drift onto or contact of **LENNS**<sup>®</sup> with foliage and fruits of cultivated crops and young stems of trees that have not yet become woody. Failure to do so may result in permanent damage or plant death.
- Do not spray within 2 m of the top of the bank of any static or flowing water or the top of a ditch that is dry at the time of application, to minimize the risk to aquatic life.
- Do not apply **LENNS**<sup>®</sup> more than once in 18 months. Diflufenican can accumulate in the soil when **LENNS**<sup>®</sup> or other products containing diflufenican are applied in successive years.
- Avoid application of **LENNS**<sup>®</sup> if the soil organic matter content is greater than 10 %, or a mat of leaves or organic matter has built up.
- Do not cultivate the treated area after application of **LENNS**<sup>®</sup>.
- **LENNS**<sup>®</sup> is corrosive to metals, except stainless steel. Use application equipment with tanks made of synthetic materials or stainless steel. Do not use iron vessels.
- Do not add any wetting agent or adjuvant oil before consulting ADAMA South Africa (Pty) Ltd.

## Compatibility

- Do not apply **LENNS**<sup>®</sup> with any other product, unless the physical and chemical compatibility of the mixture has been confirmed.



- If tank-mixing of **LENNS**<sup>®</sup> with other products is required, a physical compatibility test must be conducted before application to confirm compatibility of the mixture, as well as a biological assay to verify that application of the mixture will not have harmful effects on the crop.
- To determine **physical** compatibility, pour the required proportions of the product(s) into a suitable container. After mixing, wait for 30 minutes and check to see if the product remains in mixture. Products that remain in mixture, are considered physically compatible.
- Contact ADAMA South Africa for information regarding product compatibility with **LENNS**<sup>®</sup>.

### **Mixing instructions**

- Shake container well prior to opening.
- Half fill the spray tank with clean water.
- Add the required quantity of **LENNS**<sup>®</sup> to the spray tank while agitating.
- Fill the spray tank with water to the required volume while agitating.
- Ensure constant effective agitation during mixing and application.
- Only prepare enough spray mixture for one day's use. Spray mixture should not be allowed to stand overnight.

## **APPLICATION**

### **General**

- Apply **LENNS**<sup>®</sup> in spray volumes ranging from 200–500 L/ha.
- **LENNS**<sup>®</sup> can be applied using a tractor-mounted boom sprayer or any medium volume spray applicator that is correctly calibrated and has efficient agitation. Best results are usually obtained by use of flat fan nozzles and in a spray volume of at 200–500 L/ha.
- Apply in spring at the first signs of weed emergence. Do not apply when weed stand is excessive.
- Always use clean water. Avoid the use of brackish or muddy water, or water with a high colloid content derived from soils high in organic matter. Add a buffer to the spray water in accordance with the label instructions before adding **LENNS**<sup>®</sup> if regulation of the pH of water with high alkalinity or adjustment for water hardness is required.
- Correctly calibrate all sprayers under field conditions.
- In situations where drift may be hazardous, use low pressures of 100–200 kPa or low drift nozzles when spraying.
- Ensure a fine, even droplet distribution and thorough coverage of the target weeds.
- For post-emergence application, weeds should have at least two fully expanded true leaves.

## APPLICATION RATES

**LENNS®** should normally control the weeds listed on the label. Additional weeds not listed may also be controlled, but the registration holder will not accept responsibility for the control of weeds not listed on the label.

CROP	DOSAGE/HA	REMARKS
Stonefruit (Peaches, plums, nectarines)	4–5 L/ha	<p>Apply <b>LENNS®</b> when weeds are young and actively growing. Apply in 200–500 L water.</p> <p>Use the higher rates of <b>LENNS®</b> in situations where herbicide resistance is suspected or has been confirmed in the weeds present. Do not apply to an excessive weed stand, as the product has to reach the soil surface after application.</p> <p>Prevent contact of the spray or spray mist with the leaves, the green and young bark of stems, and the fruit.</p> <p>In trees with green bark (normally younger than two years), shield the stems from spray contact.</p>

## WEEDS CONTROLLED BY LENNS®

Scientific name	Common name
<i>Conyza bonariensis</i> (syn <i>Erigeron bonariensis</i> )	Flax-leaf fleabane, hairy fleabane, asthma weed
<i>Lactuca serriola</i>	Wild lettuce, prickly lettuce
<i>Plantago lanceolata</i>	Buckhorn plantain