



A water-soluble concentrate plant growth regulator for use on crops as indicated.

6: 23/8/2022 – Sept2022

Reg. No. L 5778 Act No. 36 of 1947

ACTIVE INGREDIENTS:

gibberellins GA4 + GA7.....19g/ℓ
N6-Benzyladenine (BAP).....19g/ℓ

24 HR EMERGENCY NUMBERS

Griffon Poison Information Centre +27 82 446 8946

24 Hr Transport / Spill emergency no: (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

UN NUMBER: NOT REGULATED

Manufactured by: Fine Agrochemicals Limited
Hill End House,
Whittington,
Worcester, United Kingdom

fine perlan® is a registered
trademark of
Fine Agrochemicals Limited

Distributed by: Registration holder:
villa UNIVERSAL CROP PROTECTION (PTY) LTD
Co. Reg. No. 1983/008184/07
P.O. Box 801. Kempton Park, 1620
Tel. (011) 396 2233
Website: www.villacrop.co.za

BATCH NUMBER/
DATE: FORMULATED:

NET CONTENTS:
1LT

PER/ZA/1L/22

For full particulars, see enclosed leaflet.

PERLAN®

Reg. No. L 5778 Act No. 36 of 1947

ACTIVE INGREDIENTS:

gibberellins GA₄ + GA₇..... 19 g/l
 N6-Benzyladenine (BAP)..... 19 g/l

Registration holder:

UNIVERSAL CROP PROTECTION. (PTY) LTD.

Co. Reg. No. 1983/008184/07

P.O. Box 801, KEMPTON PARK, 1620, Tel. (011) 396 2233

WARNINGS

- Store in a cool place, away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.

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 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

- Do not inhale the spray mist.
- Avoid contact with skin, eyes and clothing.
- Wash with soap and water after use or after accidental skin contact.
- In case of contact with eyes, flush with plenty of water and get medical attention.
- In case of contact with skin, wash immediately with soap and plenty of water and remove contaminated clothes.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face or change of clothing.
- Prevent drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean applicator after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- **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 (3) times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

DIRECTIONS FOR USE: Use only as directed.**Compatibility:**

- **PERLAN®** may be applied in combination with plant nutrients. Do not apply **PERLAN®** in combination with pesticides and other growth regulators with the exception of **GOLDEN-THIN®** (L 2581).
- It is advisable to add a buffer, e.g., **Commodobuff/Aquabuff**, to alkaline spray water to reduce the pH below 8.
- A wetter may be added to improve spray coverage and absorption of **PERLAN®** spray mixture.

Application Instructions:

- **PERLAN®** is a plant growth regulator, which must be absorbed by the plant to be effective. Optimum results will be achieved on vigorous, healthy trees when sprayed under good absorption conditions. High relative humidity and slow drying conditions favour maximum absorption.
- Do not apply **PERLAN®** to low vigour trees, or trees under stress from drought, winter injury, etc.

- Apply as a uniform fine mist spray so that 85 % of the spray volume is directed onto the upper two thirds of the trees, under favourable weather conditions.
- Use a properly calibrated sprayer that ensures uniform and complete coverage of all foliage and blossoms. Spray volume should be adjusted to tree size and density.
- Do not apply **PERLAN**® when the air temperature is lower than 7 °C or higher than 32 °C. Rapid drying conditions should be avoided. Applications in the mornings or evenings may be preferable.
- Delay **PERLAN**® application after rain until flower parts and leaves are free of surface droplets. Rainfall within 6 hours of application may reduce the expected response of **PERLAN**®.

Mixing Instructions:

- Add the required amount of **PERLAN**® to a **clean** spray tank half-filled with clean water.
- Agitate while filling the tank with clean water to the required level.
- **PERLAN**® spray solutions should be used within 24 hours of mixing.
- When a wetter or a buffered wetting agent is used, it should be added to the tank prior to the addition of **PERLAN**®.
- If **PERLAN**® is to be tank mixed with **Golden-Thin**®, first mix the **PERLAN**® thoroughly in the spray tank before adding **Golden-Thin**®. Agitate while bringing the total volume of water to the required level.

Read labels of Golden-Thin® and Commodobuff carefully and use the product in accordance with its label.

APPLICATION RATES

<i>Crop</i>	<i>Growth Regulating Activity</i>	<i>Dosage Rate ml / 100 l water</i>	<i>Remarks</i>
Apples Starking Types, Golden Delicious & Granny Smith	To improve typiness or shape of fruit and mass of individual fruit	125 ml	Apply two applications of PERLAN ®. The first at 85 % full bloom and a second application 14 days later.
"SANDWICH TREATMENT"			
Apples Golden Delicious	Fruit thinning and increasing fruit mass and reducing calyx-end russetting of individual fruit	125 ml	Apply two applications of PERLAN ®. The first at 85 % full bloom and a second application 14 days later. Apply Golden-Thin ® (70 g / 100 l) 2 to 6 days after full bloom as a separate spray.

Crop	Growth Regulating Activity	Dosage Rate mℓ / 100 ℓ water	Remarks
"TANK MIXTURE TREATMENT"			
Apples Golden Delicious	Fruit thinning and increasing fruit mass and reducing calyx-end russetting of individual fruit	125 mℓ	First Application: Apply PERLAN® as a tank mixture with Golden-Thin® (70 g / 100 ℓ) 2 to 6 days after full bloom. Second Application: Apply PERLAN® 10 to 14 days after the tank mixture application.
	Fruit thinning	62.5 mℓ to 125 mℓ	Apply PERLAN® as a single application tank mixed with Golden-Thin® (70 g / 100 ℓ) 2 to 6 days after full bloom. (The higher the rate of PERLAN® the greater the thinning action.)
Granny Smith	Fruit thinning and increasing fruit mass of individual fruit	62.5 mℓ	First Application: Apply PERLAN® as a tank mixture with Golden-Thin® (70 g / 100 ℓ) 2 to 6 days after full bloom.
		125 mℓ	Second Application: Apply PERLAN® 10 to 14 days after the first treatment if necessary.
Granny Smith & Royal Gala	Fruit thinning	62.5 mℓ	Apply PERLAN® as a single application tank mixed with Golden-Thin® (70 g / 100 ℓ) 2 to 6 days after full bloom.
"TANK MIXTURE TREATMENT"			
Apples Non-bearing apple trees: Star Crimson, Top Red, Golden Delicious, Granny Smith & Fuji	Feathering agent (increasing number of lateral branches, increase shoot growth, improve branch angles and provide a better tree framework for early cropping)	2.5 ℓ	Apply as a high-volume application from terminal budburst to 7 to 9 cm terminal shoot length. <u>For use in the nursery and/or orchard:</u> Apply as required on maidens and in the orchard up to third leaf.
"PAINT TREATMENT"			
Apples Non-bearing apple trees	Feathering agent and increasing budding (budburst) on one-year old branches (Only use Dekro Acrylic Roof Paint No. 117015)	250 mℓ to 375 mℓ / 1 ℓ paint (5000 to 7500 ppm)	Apply during spring with terminal budswell, but before budburst. Applications after budburst will damage and prevent shoot growth. Add a non-ionic wetting agent to the paint prior to the addition of PERLAN® at 5 mℓ per 1 litre paint. Apply the PERLAN® -paint mixture uniformly to the bud with a sponge or paint brush (thorough application on the bud/bark surface). Only apply on one-year-old branches. Use the higher rate on poor feathering cultivars.

Crop	Growth Regulating Activity	Dosage Rate mℓ / 100 ℓ water	Remarks
Plums Non-bearing plum trees	Feathering agent and increasing budding (budburst) on one-year old branches (Only use Dekro Acrylic Roof Paint No. 117015)	250 mℓ / 1 ℓ paint (5000 ppm)	Apply during spring with terminal budswell, but before budburst. Applications after budburst will damage and prevent shoot growth. Add a non-ionic wetting agent to the paint prior to the addition of PERLAN® at 5 mℓ per 1 litre paint. Apply the PERLAN® -paint mixture uniformly to the bud with a sponge or paint brush (thorough application on the bud/bark surface). Only apply on one-year-old branches.

The following product mentioned in this label may be replaced with an equivalent product:

- **COMMODOBUFF** (L 5390 / N-AR 1107) = **AQUABUFF** (L 5451 / W130060).

PERLAN® is a registered trademark of **FINE Agrochemicals Ltd., UK**.

GOLDEN-THIN® is a registered trademark of **Plaaskem (Pty) Ltd.**

COMMODOBUFF and **AQUABUFF** are registered products of **Villa Crop Protection (Pty) Ltd.**

PRODUCT WARRANTY CONDITIONS AND LIMITATION OF LIABILITY

Fine Agrochemicals Limited ("FINE") warrants that this Product conforms to the specifications indicated on this label. FINE disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for a particular purpose.

It is impossible to eliminate all risks associated with this Product. Plant injury, lack of performance or other unintended consequences may result because of factors such as abnormal weather conditions, presence of other materials, the manner of application, use of the Product other than in strict accordance with this label's instructions or other factors, all of which are beyond the control of FINE or the seller. To the extent consistent with applicable law, the Buyer shall assume all such risks.

FINE's liability under this label shall be limited to the amount of the purchase price or, at the election of FINE, the free replacement of the Product. FINE disclaims any liability whatsoever for special, incidental or consequential damages resulting from the handling or use of this Product.

© Fine Agrochemicals Limited, Hill End House, Whittington, Worcester, WR5 2RQ, United Kingdom.