

4: 05/07/99 - June2017

 **perlan[®]**

Reg. No / Nr. L 5778 Act/Wet 36/1947

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

ACTIVE INGREDIENTS

Gibberellins
GA₄ + GA₇ ...19g/l
N6-Benzyladenine ...19g/l

Registration holder

UNIVERSAL CROP
PROTECTION (PTY) LTD
Co. Reg. No. 1983/008184/07
Mpy. Reg. Nr.
P.O. Box / Posbus 801
KEMPTON PARK 1620
T(011) 396 2233

Manufactured by

fine

FINE AGROCHEMICALS LIMITED
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Worcester WR5 2RQ UK

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www.fine-agrochemicals.com

Net contents 1ℓ

UN number:
Not Regulated

Date of formulation

Batch No
As marked

Distributed by

 **villa**

T (011) 396 2233

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trademark of
FINE Agrochemicals Ltd., UK.

PER/SAL/1719



PERLAN®

Reg. No. L 5778 Act/Wet No. 36 of/van 1947

ACTIVE INGREDIENTS / AKTIEWE BESTANDEDELE:

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

Registration holder / Registrasiehouer:

UNIVERSAL CROP PROTECTION. (PTY) LTD.

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

WARNINGS

- Harmful if swallowed.
- May cause eye irritation.
- 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** empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining 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 a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy the container by perforation and flattening and dispose of it in a safe way.
- **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. **PAZBUFF** (L 5385), 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 **Pazbuff** carefully and use the product in accordance with its label.

APPLICATION RATES

Crop	Growth Regulating Activity	Dosage Rate ml / 100 l water	Remarks
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 russeting 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.
"TANK MIXTURE TREATMENT"			
Apples Golden Delicious	Fruit thinning and increasing fruit mass and reducing calyx-end russeting 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.

Crop	Growth Regulating Activity	Dosage Rate ml / 100 l water	Remarks
"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.
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.

PERLAN[®] is the registered trademark of / is die geregistreerde handelsmerk van **FINE Agrochemicals Ltd., UK.**
GOLDEN-THIN[®] is a registered trademark of / is 'n geregistreerde handelsmerk van **Plaaskem (Pty) Ltd.**
PAZBUFF is a registered product of / is 'n geregistreerde produk van **Universal Crop Protection (Pty) Ltd.**