

Read the label before opening the container.

For full particulars, see enclosed leaflet.

## KEEP OUT OF REACH OF CHILDREN AND ANIMALS

# ELPPA

South Africa Reg. No: L6160 Act No. 36 of 1947

## PLANT GROWTH REGULATOR

A water soluble concentrate plant growth regulator used for improved tyniness, shape or mass of fruit, fruit thinning, feathering agent and increased budding

### ACTIVE INGREDIENT:

Gibberellins GA<sub>4</sub> + GA<sub>7</sub> (gibberellins).....19g/ℓ  
6-Benzyl adenine (cytokinin).....19g/ℓ

**Product Information: 072 678 8226**  
**In case of poisoning: 082 446 8946**

### HAZARD STATEMENTS

- Causes serious eye irritation.
- Suspected of damaging fertility or the unborn child.

### PRECAUTIONARY STATEMENTS

- Do not handle until all safety precautions have been read and understood.
- Wash hands, forearms, and face thoroughly after handling.



**enviro**  
bio-chem

Registration holder: RT Chemicals CC  
Co. Reg. No: CK87/21925/23

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Expiry Date:  
Batch No:  
Date of Manufacture:

**UN No. Not Regulated**

## **WARNINGS:**

- Causes serious eye irritation.
- Suspected of damaging fertility or the unborn child.
- Store in a cool place away from food, feedstuffs, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.
- **Re-entry:** Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- In case of poisoning call a doctor and make this label available to him.

**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 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 event of any uncertainty.**

## **PRECAUTIONS:**

- Do not handle until all safety precautions have been read and understood.
- Wash hands, forearms, and face thoroughly after handling.
- Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
- IF exposed or concerned: Get medical advice/attention.
- Prevent drift of spray mist onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Triple rinse empty container in the following manner: 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 empty container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the content of the spray tank.
- Empty containers should be taken for local recycling or waste disposal.
- Do not re-use empty containers.
- Prevent contamination of foods, feedstuffs, eating utensils and drinking water.

## **RELEVANT SUBSTANCES:**

Gibberellins A4 + A7 1.8%  
6-Benzyl adenine <5%  
Tetrahydrofuran methanol <100%

## **SYMPTOMS OF POISONING:**

Causes serious irritation to the eyes. Large ingestions can cause nausea, vomiting, abdominal distress and diarrhoea.

## **FIRST AID TREATMENT**

**INGESTION:** Immediately call a POISON CENTER or doctor/physician.

**SKIN CONTACT:** (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

**INHALATION:** Remove person to fresh air and keep comfortable for breathing.

**EYE CONTACT:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
If eye irritation persists: Get medical advice/attention.

## **NOTE TO PHYSICIAN:**

No specific antidote. Treat symptomatically and supportively. Keep patient under observation. Perform gastric lavage and catharsis if the victim is not unconscious. If less than 10mg per kg body weight was ingested, administer 30 to 60g activated charcoal in 150 to 300mℓ water.

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

ELPPA, when applied at specific spray timing and concentration, will provide the following effects:

- Improved apple shape through elongation of fruit and development of more prominent calyx lobes.
- Increase mass of individual fruit and yield per tree. Some thinning may occur.
- Increase number of lateral branches, increase shoot growth, improve branch angles and provide a better tree framework for early cropping (feathering).
- Increasing budding (budburst).

**Compatibility:**

ELPPA can only be applied in a tank mixture with:

- I-naphthylacetamide.
- Plant nutrients.
- Buffers, particularly to reduce spray water pH below 8 (R.T.BUFF Reg. No.L5777).
- Wetting agents (non ionic types).

**NOTE:** Do not use with general pesticides unless otherwise indicated.

**Application Instructions:**

ELPPA is a plant growth regulator and must be absorbed by the plant to be effective.

To obtain best results:

- Spray water pH must be below 8.
- Spray healthy, vigorously growing trees and do not spray any low vigour trees under stress from heat, drought, low fertility, winter stress etc.
- Apply as a uniform fine mist spray so that 85% of the spray volume is directed into the upper two thirds of the trees
- Use a properly calibrated and adjusted sprayer that ensures uniform and complete coverage of all foliage and blossoms. Adjust spray volumes for tree size and density.
- Apply ELPPA when air temperature is between 7°C and 32°C. Best results are obtained when absorption conditions are good (high relative humidity), preferably in the morning and evening.
- Rainfall within 6 hours of application may reduce absorption.
- After rainfall delay application until flowers and leaves are free of surface droplets.

**Mixing Instructions:**

Half fill the spray tank with clean water and start agitation.

If a buffer or wetter is to be added, this should be added next.

Thereafter add the required amount of ELPPA.

With continuous agitation bring the total volume of water to the required level.

The spray mixture should be used within 24 hours of mixing.

| CROP   | GROWTH REGULATING ACTIVITY                                       | DOSAGE           | REMARKS   |
|--|--|------------------|---|
| <b>APPLES</b><br>Starking type<br>Golden Delicious<br>Granny Smith | To improve the tipiness/ shape of fruit/ fruit mass              | 125ml/100l water | <b>Two applications:</b><br>1. At 85% full bloom.<br>2. Repeat 14 days later.   |
| <b>GOLDEN DELICIOUS</b>  | Fruit thinning/increased fruit mass/reduced calyx end russetting | 125ml/100l water | <b>Two applications:</b><br>1. At 85% full bloom.<br>2. Repeat 14 days later.<br>Apply I-naphthylacetamide 2 days after full bloom as a separate spray. |

| CROP  | GROWTH REGULATING ACTIVITY  | DOSAGE                  | REMARKS   |
|---|---|-------------------------|---|
| GOLDEN DELICIOUS  | Fruit thinning  | 62.5 - 125ml/100ℓ water | Apply in a tank mix with 70g l-naphthyl-acetamide per 100ℓ spray mixture as a single application 2 to 6 days after full bloom – higher rate gives increased thinning.   |
| GRANNY SMITH  | Fruit thinning/increased fruit mass   | 62.5ml/100ℓwater        | First application in a tank mix with 70g l-naphthylacetamide per 100ℓ spray mixture 2 days after full bloom.  |
|   |   | 125ml/100ℓwater         | Second application 10 to 14 days later if necessary.  |
| ROYAL GALA  | Fruit thinning  | 62.5ml/100ℓ water       | Single application in a tank mixture with 70g l-naphthylacetamide per 100ℓ spray mixture 2 to 6 days after full bloom.  |
| NON-BEARING APPLE TREES<br>(Star Crimson, Top Red, Golden Delicious, Granny Smith & Fuji) | Feathering agent/ increased lateral branches, increased shoot growth, improved branch angles and provides a better framework for early cropping | 2.5ℓ/100ℓ water         | 1. Use as a high volume application from terminal budburst to 9cm terminal shoot length.<br>2. Nurseries and/or orchards: apply as required on maidens and in orchards up to 3rd leaf stage.  |
| PAINT TREATMENT<br>Non-bearing apple trees  | Feathering agent/ increased budding on one year old branches. Use acrylic paint only  | 250 - 350mℓ/ℓ paint     | Apply in spring with terminal budswell but before budburst. To improve dispersion, wetting and absorption a non ionic wetter can be used at 0.5 to 1.0%. Apply the mixture uniformly to buds with sponge or paint brush. Only apply to 1 year old branches. Use higher rate on poor feathering varieties. |
| PLUMS<br>Non-bearing plum trees   | Feathering agent/ increased budding on one year old branches. Use acrylic paint only  | 250mℓ/ℓ paint           | Apply in spring with terminal budswell but before budburst. To improve dispersion, wetting and absorption a non ionic wetter can be used at 0.5 to 1.0%. Apply the mixture uniformly to buds with sponge or paint brush. Only apply to 1 year old branches.   |