

Read the label before opening the container.

For full particulars, see enclosed leaflet.

## KEEP OUT OF REACH OF CHILDREN AND ANIMALS

# SIANAMIED 520

South Africa Reg. No: L8941 Act No. 36 of 1947

## PLANT GROWTH REGULATOR

A soluble concentrate plant growth regulator for delayed foliation in apples, pears, apricots, plums, kiwifruit, wine and table grapes as well as advancement of budding in sultana grapes.

### ACTIVE INGREDIENT:

Cyanamide.....520g/l

### HAZARD STATEMENTS

- Harmful if swallowed.
- Harmful in contact with skin.
- Harmful if inhaled.
- Causes severe skin burns and eye damage.
- May cause an allergic skin reaction.
- Suspected of causing cancer.
- May cause damage to organs through prolonged or repeated exposure.
- Suspected of damaging fertility or the unborn child.
- Harmful to aquatic life with long lasting effects.



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

### PRECAUTIONARY STATEMENTS

- Wash hands, forearms, and face thoroughly after handling
- Do not eat, drink, or smoke when using this product.



Registration holder: Erintrade (Pty) Ltd t/a RT Chemicals

Co. Reg. No: CK 2007/027855/07

44 Kerk Street, Lichtenburg NW, South-Africa

Tel: +27 87 231 7261 | Fax: +27 86 541 7948

Web: www.envirobiochem.co.za

Expiry Date:

Batch No:

Date of Manufacture:

**UN No. 2922**

## **WARNINGS:**

- Harmful if swallowed.
- Harmful in contact with skin.
- Harmful if inhaled.
- Causes severe skin burns and eye damage.
- May cause an allergic skin reaction.
- Suspected of causing cancer.
- May cause damage to organs through prolonged or repeated exposure.
- Suspected of damaging fertility or the unborn child.
- Harmful to aquatic life with long lasting effects.
- Toxic to bees and other animals.
- Re-entry: Do not enter treated area within one day of treatment unless wearing protective clothing.
- Keep out of reach of children, uninformed persons and animals.
- Store under lock and key, away from food and feedstuffs, seed and other agricultural chemicals.
- Use only before budburst. Do not apply within 2 weeks of budburst on grape vines.
- Store in a cool place (below 20°C).
- In case of poisoning call a physician and make this label available to him/her.

**Although this insecticide 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 effected by factors such as abnormal soil, climactic and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pest against the insecticide concerned as well as by the method, time and accuracy of the 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 insecticide 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.
- Keep container tightly closed.
- Do not breathe dust/fumes/gas/mist/vapours/spray.
- Wash hands, forearms, and face thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use outdoors or in well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF exposed or concerned: Get medical advice/attention.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Wash contaminated clothing before reuse.
- Store in a well-ventilated place. Keep cool.
- Store locked-up.
- 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.
- Collect spillage.
- Do not drink any form of alcohol 24 hours before, during and 24 hours after spraying of this product since alcohol increases the irritation effect of Sianamid 520.

## **RELEVANT SUBSTANCES:**

Cyanamide <46.4%

Phosphoric Acid (H<sub>3</sub>PO<sub>4</sub>) <5%

## **SYMPTOMS OF HUMAN POISONING**

Ingestion or inhalation, especially in combination with alcohol consumption, causes pronounced dilation of the cutaneous vessels to the face and upper thorax, resulting in intense flushing and blue-red discoloration. In severe cases giddiness, headache, respiratory distress, elevated pulse rate, tightness in the chest and a sensation of coldness in the extremities can also occur. Hoarseness and cough are probably the result of a local irritant effect on the mucous membranes. These symptoms usually disappear in a short time but may last up to 24 hours in exceptional cases. Depending on the exposure time, skin contact may result in reddening and blistering of the skin or in distinct effects, with papulovesicular reaction on severe dermatitis.

Irritation of mucous membranes, redness of the face, vertigo, increased respiration, increased pulse rate and hypotension. Symptoms usually disappear after a short while but may last up to 24 hours in extreme cases. Symptoms are increased by the consumption of alcohol.

## **FIRST AID TREATMENT:**

Remove patient from source of poisoning and keep him quiet and reassured.

**EYE CONTACT:** Flush eyes with copious amounts of water for at least 15 minutes and consult a physician.

**SKIN CONTACT:** Remove contaminated clothing and shoes. Special case should be taken to flush the affected area as soon as possible with running water. If irritation persists, call a physician. Do not rub skin.

**INHALATION:** Remove to fresh air. If breathing is difficult give oxygen. If not breathing give artificial respiration.

**INGESTION:** Give one or two glasses of water or milk to drink. Do not induce vomiting. Take patient to the nearest physician and make the label available to him/her.

## **NOTE TO PHYSICIAN:**

No known antidote. Treat symptomatically. Put the patient in horizontal position while administering oxygen (6 liters per minute). In case of ingestion, the stomach should be emptied under qualified supervision. Monitor circulatory status. Note: Cyanamide interacts with alcohol and cyanamide is not cyanide and does not degrade to cyanide.

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

Apply as a directed spray with complete coverage of buds where rest breaking is sought.

Where applicable, apply after pruning.

## **Compatibility:**

**SIANAMIED 520** is not compatible with insecticides or fungicides and should not be used in tank mixes with these products. It is however compatible with winter oil for the use on bearing apple trees as indicated in the table.

## **MIXING INSTRUCTIONS:**

Make up the spray solutions as indicated below by half filling the spray tank, with clean water then start agitation and add the required amount of **SIANAMIED 520**. Fill with water to the required volume.

## **APPLICATION INSTRUCTIONS:**

1. Use a hand gun or a knapsack sprayer equipped with D4 nozzles and 45 whirlplates. Spray at low pressure (<100 kPa).

2. For bearing trees, volumes of water should be determined by the tree row volume formula as described by Unrath.

- Apples - volumes should not exceed 1000 l/ha.
- Apricots and plums – volumes should not exceed 750 l/ha.

Note:

- i) Do not apply by brush, hand spray or sponge as this may lead to erratic results as well as uneven application.
- ii) Do not leave spray mixture to stand overnight.

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<b>TABLE AND WINE GRAPES</b> (all cultivars) More even and increase in budding	5ℓ	Apply after pruning. Apply 3 to 4 weeks and not later than 2 weeks before normal bud burst. For cultivars that may be treated see “Cultivars that Sianamied 520 can be used on” in the table below
<b>SULTANAS</b> Advancement of budding	5ℓ	Sultanas: Do not apply later than 6 weeks before normal budding. Note: 1. Do not use SIANAMIED 520 for accelerated budbreak where frost or a cold spell will damage young shoots or flowering. 2. Inconsistent results are possible where conditions do not favour delayed foliation.
<b>KIWI FRUIT</b> More even and increase in budding.	5ℓ	Apply after pruning, 4 to 5 weeks prior to normal budbreak.
<b>APPLES</b> Non-bearing trees (Trees 1 to 3 years old) For more even and increase in budding	4ℓ	Apply approx. 1 to 10 September  For cultivars that may be treated see “Cultivars that Sianamied 520 can be used on” in the table below.
Bearing Trees (Golden Delicious, Granny Smith, Royal Gala and Stark) For more even and increase in budding	4ℓ	Apply 4 to 5 weeks prior to normal budburst. Note: Shoot damage may occur on young apples suffering from abnormal stress, as well as one year old shoots.
	OR 0.5ℓ + 2ℓ winter oil**	Apply 4 to 5 weeks before normal budburst.  For cultivars that may be treated see “Cultivars that Sianamied 520 can be used on” in the table below
<b>PEARS</b> Non-bearing trees (Trees 1 to 3 years old) For more even and increase in budding	1ℓ plus 2.0-4.0ℓ winter oil**	Apply during the approximate periods 20 to 30 August or 2 to 4 weeks before the expected bud burst.
Bearing trees For more even and increase in budding	0.5ℓ plus 2.0-4.0ℓ winter oil**	Apply 4 to 6 weeks before the expected full bloom taking into account any unusually low cold units where applications must only be made at the first signs of knobs on the buds. NOTE: Variable results are possible on trees that are abnormally stressed during application.  Use the higher winter oil rate on cultivars with medium to high chilling requirements, growing in warm areas or when insufficient cumulative cold units were registered for the specific year.  For cultivars that may be treated see “Cultivars that Sianamied 520 can be used on” in the table below.

CROP/PEST	DOSAGE	REMARKS
<b>APRICOTS</b> Bearing trees For more even and increase in budding	1.5ℓ	Apply 4 to 5 weeks before normal budburst.  For cultivars that may be treated see “Cultivars that Sianamied 520 can be used on” in the table below.
<b>PLUMS</b> Bearing trees For more even and increase in budding	1.5ℓ	Apply 4 to 5 weeks before normal budburst or 5 to 6 weeks before full budding.  For cultivars that may be treated see “Cultivars that Sianamied 520 can be used on” in the table below.

\*\* Use only winter oils which are registered for rest breaking.

### **CULTIVARS THAT SIANAMIED 520 CAN BE USED ON**

Apples:	Trees 1 to 3 years	Pink Lady, Granny Smith, Braeburn, Royal Gala, Golden Delicious, Topred, Smoothee, Starking.
Apples:	Bearing Trees	Pink Lady, Golden Delicious, Granny Smith, Royal Gala, Starking, Starking.
Pears:		Packhams Triumph, Bon Chretien, Deyenne Du Comice, Beurre Bosc, Flamigo and Rosemary.
Apricots:	Bearing Trees	Bulida, Imperial, Peeka, Royal.
Plums:	Bearing Trees	Simka, Songold, Casselman, Redgold, Eldorado, Santa Rosa, Reubenel, Gaviota, Leatitia.
Grapes:	Table	Waltham Cross, Bariinka, Dan Ben Hannah, Alphonse Lavalle, Sultanina.
Grapes:	Wine	Muscat d' Alexandrie, Chenin Blanc, Colombar, Riesling (Cape), Cinsaut, Cabernet Sauvignon, Chardonnay,  Shiraz, Sauvignon Blanc, Zinfandel, Weisser Riesling.