

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Plant Growth Regulator



GINSTOP 540 SC

Reg. No. L 10519 Act/Wet No. 36 of/van 1947

1: 26/11/2018 – Dec2018

A suspension concentrate defoliant and leaf regrowth suppressor to facilitate the harvesting of cotton.

'n Suspensie konsentraat ontblaringsmiddel, en wat ook blaar hergroei onderdruk, om die oes van katoen te vergemaklik.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

thidiazuron (phenylurea compound)	360 g/l	thidiasuron (fenielureum-verbinding)
diuron (urea compound)	180 g/l	diuron (ureum-verbinding)



villa

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1992/002474/07

PO Box / Posbus 10413, Aston Manor, 1630

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UN Number: 3082

Willow Set & Print 011 394-4486



CAUTION
VERSIGTIG



GEBRUIKSAANWYSINGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:
Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED
REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:
Lotnommer:

GINSTOP 540 SC

Reg. No. L 10519 Act/Wet No. 36 of/van 1947

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Registration holder / Registrasiehouer:

VILLA CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1992/002474/07 Mpy. Reg. Nr.

P.O. Box / Posbus 10413, ASTON MANOR, 1630,

Tel. (011) 396 2233

CAUTION / VERSIGTIG**WARNINGS:**

- **SPRAY DRIFT MAY HARM OR KILL NON-TARGET PLANTS. PREVENT SPRAY DRIFT FROM COMING INTO CONTACT WITH OTHER PLANTS IN NON-TARGET AREAS.**
- **Do not graze treated areas or feed cotton trash to livestock.**
- Handle with care.
- Irritating to eyes and skin.
- May cause damage to eyes.
- May cause respiratory irritation.
- Suspected of causing cancer.
- May cause damage to organs through prolonged or repeated exposure.
- Very toxic to aquatic life with long lasting effects.
- Store in a cool, dry place under lock and key, away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, animals and uninformed persons.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.
- Aerial application: Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.
- **In case of poisoning, call a doctor and make this label available to him/her.**

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 pests to the remedy concerned, 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 fumes or spray mist.
- Wear full protective clothing, a suitable respirator, rubber gloves and boots when handling the product, preparing the spray mixture and during application.
- Wash contaminated clothing after use.
- Wash with soap and water after use or accidental skin contact.
- In case of eye contact, flush with plenty of water for at least 15 minutes.
- Prevent contamination of food, eating utensils, feed and drinking water.
- Do not eat, drink or smoke whilst mixing, applying the product or before washing hands and face or change of clothing.
- Prevent drift of spray mist onto other crops, grazing, rivers, dams and areas not under treatment or to nearby water sources.
- Do not allow the spray solution to dry in the application equipment. Immediately after application, flush and rinse equipment (mixing tanks, pumps, application tanks, drop arms, booms, nozzles and all related equipment) thoroughly with detergent and water. Repeat washing at least twice. Should any residue of **GINSTOP 540 SC** remain in the application equipment, it may be released during subsequent application of other products and cause damage to crops.

- Thoroughly clean the spraying equipment directly 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 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 empty container by perforation and flattening and dispose of it in a safe way.
- Never **re-use the empty container for any other purpose.**

USE RESTRICTIONS

- **DO NOT** allow drift to contaminate adjacent crops. Do not apply under calm temperature inversion conditions (refer to “**Aerial Application**” instructions below) or when the wind might carry droplets to non-target areas.
- **DO NOT** plant lettuce or carrots in cotton fields treated with **GINSTOP 540 SC** within the previous nine (9) months.
- **DO NOT** plant legumes, lucerne, other root crops or leafy vegetables in cotton fields treated with **GINSTOP 540 SC** within the previous two (2) months.
- **DO NOT** plant small grains, sorghum or maize in cotton fields treated with **GINSTOP 540 SC** within the previous two (2) weeks.

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

GINSTOP 540 SC is compatible with **Ethephon 480 SL** and the adjuvant **Link**.

Mixing instructions:

- Shake container well before use.
- Half fill the spray tank with clean water and activate the agitation system. Add the required volume of **GINSTOP 540 SC** while mixing.
- Fill to the final volume with water while adding the required volume of **Ethephon 480 SL** to the spray tank.
- Lastly add the **Link** to the spray tank just before the final volume for the spray tank is reached.
- Maintain agitation in the spray tank while spraying.
- Do not allow spray mixture to stand over for any length of time e.g. overnight.

Method of Application:

Good coverage of the whole cotton plant is essential to obtain effective defoliation. Ensure complete coverage and uniform wetting of foliage.

Ground application:

Apply **GINSTOP 540 SC** by means of a calibrated boom and nozzles sprayer equipment that is in good working order. Apply in 300 litres water per hectare.

Aerial Application:

Aerial application of **GINSTOP 540 SC** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- **Volume:** A minimum spray mixture volume of at least 40 to 50 litres per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 35 to 45 droplets per cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 300 to 350 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking.

- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8 °C.
- Stop spraying if the wind speed exceeds 15 km per hour.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the aerial spray operator knows exactly which fields to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

APPLICATION RATES

Crop & Purpose	Dosage Rate:	
Cotton Defoliation and suppressing of leaf regrowth	Tractor ground or aerial application: 150 to 250 ml / ha GINSTOP 540 SC PLUS 2.0 to 3.0 ℓ / ha Ethephon 480 SL PLUS 0.1% Link (100 ml / 100 ℓ water)	Small scale knapsack application: 5 to 8 ml / 10 ℓ water GINSTOP 540 SC PLUS 65 to 100 ml / 10 ℓ water Ethephon 480 SL PLUS 10 ml / 10 ℓ water Link
Remarks <ul style="list-style-type: none"> • Apply to actively growing plants (not to senescent plants) when 60 % of the bolls are open and when the youngest harvestable boll is physiologically mature (a boll is mature when it is too hard to be dented when squeezed between thumb and fingers, too hard to be sliced with a sharp knife and when the seed coat becomes light brown in colour). • Ensure good coverage of all the leaves. • Refer to the Ethephon 480 SL label for USE RESTRICTIONS and DIRECTIONS FOR USE. • <u>Dosages and defoliation conditions:</u> <ul style="list-style-type: none"> - Use the lower rate when conditions are optimum for defoliation and the higher rate under marginal conditions. - The following can serve as a guideline, but other factors influencing the physiological conditions of the plant, e.g. humidity, soil moisture, fertilization, etc. should also be considered. - Very dense foliage of the crop at time of application may adversely affect even coverage and may result in sub-optimal defoliation. 		
Condition		Dosage
<u>Optimum conditions:</u> Day temperatures = 25 to 35°C Night temperatures = > 12°C		150 ml / ha
<u>Intermediate conditions:</u> Day temperatures = 20 to 25°C Night temperatures = > 12°C		200 ml / ha
<u>Marginal conditions:</u> Day temperatures = < 20°C Night temperatures = < 12°C		250 ml / ha

IMPORTANT NOTES

- Active growth of the crop is required to obtain optimal results. In the case of stress factors, and wilting irrigate before application of **GINSTOP 540 SC**.
- **Temperature requirement:** Day temperatures above 20°C and night temperatures above 10°C, within 7 to 21 days following application, is required to obtain effective defoliation of cotton with **GINSTOP 540 SC**.
- Rain within 24 hours after application will adversely affect defoliation.
- In the case of actively growing plant and/or rainfall shortly after application, re-growth may occur, particularly when the lower rate was applied.
- Extreme climatic conditions e.g. very low or high temperatures at time of, or after application, may adversely affect defoliation.
- Reduced spray penetration, and thus reduces efficacy of the chemical, will be obtained with dense and/or irregular plant stands or dense weed growth, particularly when using lower rates and/or aerial application.

The following products mentioned in this label may be replaced with equivalent products listed below:

- **LINK** (L 8675) = **DIRECT** (L 8680) and
- **ETHEPHON 480 SL** (L 4776 / N-AR 0994) = **ETHEPHON 480 SL** (L 7511).

LINK, ETHEPHON 480 SL and/en **DIRECT** are registered products of / is geregistreerde produkte
van
VILLA CROP PROTECTION (PTY) LTD.

ETHEPHON 480 SL is a registered product of / is 'n geregistreerde produk van
UNIVERSAL CROP PROTECTION (PTY) LTD.