



SHARDA ETHEPHON 480 SL

Reg. No. L10516, Act No. 36 of 1947 | Reg. Nr. L10516, Wet Nr. 36 van 1947

Read the label before use
Keep out of reach of children and animals

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

Hazard Statements

May be harmful if swallowed.
May be harmful in contact with skin.
Causes severe skin burns.
Causes serious eye damage.
May damage the unborn child.
Toxic to aquatic life with long lasting effects.

Precautionary Statements

Do not breathe dusts or mists.
Wash hands thoroughly after handling.

'n Oplosbare konsentraat plantgroeireguleerder vir gebruik op gewasse soos aangedui



Danger

ACTIVE INGREDIENT:

ETHEPHON 480g/ℓ

Manufactured for and registered by/Vervaardig vir en geregistreer deur:

Sharda International Africa (PTY) LTD

Reg. No./Reg. Nr. 2010/002268/07

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UN No./VN Nr. 3264

AKTIEWE BESTANDDEEL:

ETEFON 480g/ℓ

BATCH NO. LOT NR.	
EXPIRY DATE VERVAL DATUM	

NET VOLUME /
NETTO VOLUME

20 ℓ

WARNINGS

- May be harmful if swallowed.
- May be harmful in contact with skin.
- Causes severe skin burns.
- Causes serious eye damage.
- May damage the unborn child.
- Toxic to aquatic life with long lasting effects.
- Handle with care.
- Product is corrosive.
- Poisonous by swallowing, inhalation and skin contact.
- Keep out of reach of children, uninformed persons and animals.
- Store under lock and key, away from food and feedstuffs.
- AERIAL APPLICATION: Notify all inhabitants of the immediate area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.
- Re-entry interval: Do not enter treated field until the spray deposit has dried unless wearing protective clothing.
- In case of poisoning call a doctor and show him/her this label.

Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it would 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 the 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 the event of any uncertainty.

PRECAUTIONS

- Do not breathe dusts or mists.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- IF SWALLOWED: Get medical help.
- IF ON SKIN: Immediately remove all contaminated clothing. Immediately rins with water for several minutes.
- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Collect spillage.
- Store locked up.
- Dispose of contents/container to a licensed hazardous-waste disposal contractor or **colletion** site except for empty clean containers which can disposed of as non-hazardous waste.
- Wash contaminated clothing. Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and change of clothing.
- Prevent contamination of food, feedstuff, eating utensils and drinking water.
- Prevent drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean applicator thoroughly after use.
- Add the rinsings to the contents of the spray tank before destroying the container in the described manner.
- Destroy empty container by perforation and flattening and never use for any purpose.
- Handle with care.
- Product is corrosive.
- Irritating to eyes and skin.
- Poisonous by swallowing, inhalation and skin contact.
- Harmful if swallowed.
- NON Toxic to fish and harmful to other aquatic life.
- Store away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried.

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.

RELEVANT SUBSTANCES:

Components	%
Ethephon	< 50
Polyethoxy ether	< 10
N-methyl pyrrolidone	< 10

DIRECTIONS FOR USE: Use only as indicated.

Mixing Instructions:

If the spray water is alkaline, a buffer should be added before adding Ethephon 480 SL. Replace the container cap immediately after pouring the required quantity of **Ethephon 480 SL**. Half fill the spray tank with clean water; add the required quantity of **Ethephon 480SL** to the spray tank. Fill the spray tank to the required capacity. The spray mixture must be agitated during mixing and spraying. Do not allow the spray mix to stand without agitation. All label recommendations of tank mix products must be followed.

Spray Application:

All spray equipment must be clean and correctly calibrated. Ensure a spray volume that will give an even spray droplet distribution on the target plant surfaces. Ground equipment: Spray 150 to 450 ℓ per ha depending on crop growth stage. If it rains within 2 hours of application, it will be necessary to re-apply the product.

Aerial Application:

Aerial application of **Ethephon 480 SL** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SABS 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 spray mixture volume of 30 to 40ℓ 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:** 25 to 35 droplets per cm² must be recovered on the target area.
- **Droplet size:** A droplet spectrum with a VMD of 280 to 300 microns is recommended. Limit the production of fine droplets of less than 150 microns (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/h.
- 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.

Crop Recommendations:

Apply Ethephon 480 SL as a full cover spray before run off

CROP/ DESEASE	DOSAGE RATE	REMARKS
Apples Improved colour development (Starking types)	85 mℓ / 100ℓ water	Only for the local market. Application as a full cover spray should be performed 2 to 3 weeks before anticipated harvest.
Citrus Colouring of fruit of selected varieties.		
Pre-Harvest Valencias Pomelos and Tomangos	60 mℓ / 100ℓ water 50mℓ/100ℓ water	Use as medium cover spray 2-3 weeks before harvest. Colouring must have started on one side of the fruit.
Post-Harvest Pack house. (brush - on treatment) Navels and Tomangos	200 mℓ / 25ℓ water	Mix sufficient product to treat a maximum of 25 ton fruit. ETHEPHON will colour fruit that is already coloured on one side. Colouring will develop over a 7 day period from treatment.
Pomelos and Lemons	150 mℓ / 25ℓ water	Note - 1. ETHEPHON is not compatible with waxes, imazil sulphate 750 S.P. or over 2000 ppm TZB [thiabendazole]. 2. Use clean water.
Tranpsort treatment Navels, grapefruit and lemons	125 mℓ / 20 water and 5 mℓ wetter	Using a knapsack, spray the fruit while being discharged into the trailer. Ensure good coverage. Cover the fruit overnight with a sail and pack the following day. Fruit colouring improves over the next seven days - To keep trailer rust to a minimum, wash trailer daily with clean water.
Pineapples Colouring of fruit	2.0 to 4.0ℓ / 500 to1000 ℓ water / ha	ETHEPHON 480 SL may affect sugar concentration. Colouring of fruit unless applied at or just after natural colour change. For uniform colouring, ensure a thorough coverage of fruit with the spray solution. For maximum benefit direct spray on fruit only.
Induce flowering: Cayenne's	1.0ℓ Plus 50ℓ U.A.N.(32) / 2500ℓwater / ha	Apply to plants when they are ready to be forced to flower.
Queens	125mℓ Plus 50ℓ U.A.N.(32) / 2500ℓwater / ha	Use 20mℓ of mixture per individual plant or sucker. Apply to individual suckers when they are ready to be forced to flower
Grapes Barlinkas cultivar colour improvement	50 mℓ / 100ℓ water	Only for Barlinka cultivar. Apply at 5 % colouring of berries. Harvest at the correct degree of maturity, according to the sugar/ acid content.
Flame and Crimson Seedless cultivars Colour improvement of	40 mℓ / 100ℓ water OR 40 mℓ / 100ℓ water PLUS 50 to 100 g / 100ℓ water S-Absciscic Acid	Flame and Crimson Seedless cultivars. Apply at veraison and follow up 7 days later. Harvest at the correct degree of maturity, according to the sugar/acid content. Climate conditions can play a significant role in colour development and the breakdown of the active ingredient Ethephon. Make sure you understand the conditions of the vineyard before it is treated.
Peaches	20mℓ/100ℓ water	2-3 week prior to harvest
Macadamias To promote abscission of nuts	208 mℓ / 100 ℓ water PLUS Wetter	Apply from March to July on trees when the nuts are physiologically mature. Mist blowers (e.g. Cima, Jacto Arbus, Nobili): Apply 4 to 5 litres ETHEPHON 480 SL per hectare in 2000 to 2500 litres water per hectare. Handgun/Lance: Apply 4.5 to 5.2 litres ETHEPHON 480 SL per hectare in 3000 to 3500 litres water per hectare. (Approximately 150 mℓ per 100 litres of water). Ensure thorough wetting of all nuts. Refer to notes below:

NOTES

Also refer to "NOTES" below.

Apply from March to July on trees when the nuts are physiologically mature. Mist blowers (e.g. Cima, Jacto Arbus, Nobili): Apply 4 to 5 litres ETHEPHON 480 SL per hectare in 2000 to 2500 litres water per hectare. Handgun/Lance: Apply 4.5 to 5.2 litres ETHEPHON 480 SL per hectare in 3000 to 3500 litres water per hectare. (Approximately 150 mℓ per 100 litres of water). Ensure thorough wetting of all nuts.

- It is important to confirm nut maturity by means of an "in-field" and "Home/Lab test".
- In field test: Check the colour of the inside of husk which should be brown to dark brown.
- Home/Lab test: Take a sample of 100 nuts **per cultivar**, dehusk immediately, dry overnight in an oven/warming drawer at 90 °C (dry for longer if **nec essary**), hand crack the next morning and float the kernels in a jug of tap water. Crop is mature if >95 % of kernels float. Note that hybrids have a lower oil percentage than Inters therefore 95 % floating will not always be reached.
- Apply approximately 2.5 to 4.0 litres spray mixture per tree for 5 to 6 year-old trees and 6 to 8 litres per tree for mature (8 to 10 year-old trees).