

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.



Herbicide

2,4-D AMINE 480 SL

Reg. No. L 4505 Act No. 36 of 1947
W 130459 / N-AR 1086

9: 19/5/2022 – July2023

A water-soluble herbicide with selective hormone action for the control of broad-leaved weeds in crops as indicated.

ACTIVE INGREDIENT

2,4-D (phenoxy-carboxylate) acetic acid 480 g ae/l
(as the 2,4-D-dimethylammonium salt) 580 g/l

GROUP

4

HERBICIDE



DANGER

Hazard Statements:

Harmful if swallowed.
May be harmful in contact with skin.
May cause an allergic skin reaction.
Causes serious eye damage.
May be harmful if inhaled.
May cause respiratory irritation.
Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Avoid release to the environment.
Wear impervious rubber gloves and boots, protective clothing, and chemical safety goggles.



UN Number: 3082

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No.1983/008184/07
P.O. Box 801, KEMPTON PARK, 1620
Tel. (011) 396 2233
Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946
24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411
(Client: Villa Crop Protection)

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

2,4-D AMINE 480 SL

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W 130459 / N-AR 1086

HRAC HERBICIDE GROUP CODE: 4

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2,4-D (phenoxy-carboxylate) acetic acid480 g ae/l
 (as the 2,4-D-dimethylammonium salt).....580 g/l

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WARNINGS**Hazard Statements:**

Harmful if swallowed.
May be harmful in contact with skin.
May cause an allergic skin reaction.
Causes serious eye damage.
May be harmful if inhaled.
May cause respiratory irritation.
Toxic to aquatic life with long lasting effects.

- **WITHHOLDING PERIOD - allow seven (7) days between the last application and harvest or grazing.**
- Handle with care.
- 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.
- 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/her.**

Aerial application:

- Notify all inhabitants in the immediate vicinity of the lands to be sprayed and issue the necessary warnings.
- Do not spray over or allow drift to contaminate water or adjacent areas.
- **2,4-D AMINE 480 SL** is a highly active herbicide that in small quantities, when used incorrectly, can cause serious damage to crop seedlings, deciduous fruit trees and grape vines during the budding and early season growth stages.
- Under the following conditions it can cause serious damage as far as 3 to 5 km from the nearest spray path of the aircraft: Cloudy weather with relative humidity above 80 % and low air movement of less than 5 km per hour.
- When such conditions prevail, aerial application should **NOT** be carried out where crop seedlings, deciduous fruit trees and grape vines, in budding or early season growth stages, are present within 5 km of the nearest spray path of the aircraft.

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 products not indicated on the label and the occurrence of resistance of the weeds 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**Precautionary statements:**

Avoid breathing dust, fumes, mists, gas, vapours or spray.
Wash hands and face thoroughly after handling. Do not touch eyes.
Do not eat, drink or smoke when using this product.
Use only outdoors in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF SWALLOWED: Get medical help.
IF ON SKIN: Get medical help.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
IF INHALED: Get medical help.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical help if you feel unwell.
Rinse mouth.
If skin irritation or rash occurs: Get medical help
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local regulations.

- Wear a face shield, rubber gloves and boots when handling, preparing and applying the spray mixture.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face and change of clothing.
- Prevent drift onto other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Clean the applicator with a household ammonia solution (1 %) before using other pesticides. Let the solution stand for several hours, preferably over-night. Rinse at least twice. This applicator should not be used for applying chemicals other than herbicides.
- 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 THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three (3) times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- 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.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Over-exposure to the product or swallowing excessive amounts may cause nausea, vomiting, sweating, headaches, muscle soreness, abdominal pain and loss of coordination. May cause burns of mouth, throat and oesophagus.

FIRST AID TREATMENT

- **Inhalation:** Remove source of contamination or move person to fresh air as rapidly as possible. Keep affected person calm and reassured. Treat symptomatically and supportively. Only qualified personnel should perform administration of oxygen. Get medical attention immediately if condition persists.
- **Skin contact:** If irritation occurs, remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Do not rub the skin. If irritation persists, seek medical advice immediately.
- **Eye contact:** Immediately flush eyes with clean, lukewarm water for 15 minutes or until the product is removed, holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention immediately.**
- **Ingestion:** Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert and conscious, rinse mouth thoroughly with water and give 2 to 3 glasses of water to drink. **Seek medical attention immediately.**

NOTE TO PHYSICIAN

This product contains a phenoxy-carboxylate herbicide. There is no antidote available. Treat symptomatically and supportively. Gastric lavage with activated charcoal is advised. Follow up with 0.9 % saline cathartic. Avoid oily laxatives.

RESISTANCE WARNING

2,4-D AMINE 480 SL is a group code 4 herbicide. Any weed population may contain individuals naturally resistant to **2,4-D AMINE 480 SL** and any other group code 4 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **2,4-D AMINE 480 SL** or any other group code 4 herbicide.

To delay herbicide resistance:

- avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide group codes,
- integrate other control methods (chemical, cultural, biological) into weed control programmes.

For specific information on resistance management contact the registration holder of this product.

Mode of Action: Salts are readily absorbed by the roots whilst esters are readily absorbed by the foliage. Translocation occurs, with the accumulation principally at the meristematic regions of roots and shoots. Acts as a growth inhibitor.

USE RESTRICTIONS

- To prevent damage, do not permit drift, vapour or spray mist to come into contact with sensitive broadleaf crops, fruit trees or ornamentals.
- Apply the product strictly in accordance with the application directions.
- **Do not apply this product by air in KwaZulu-Natal.**

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

- For improved control of larger broadleaf weeds, Morning glory and other problem weeds, **2,4-D Amine 480 SL** can be used in conjunction with **Terbucide Plus 900 WDG**, **Pentium 960 EC** and **Slash High Load 600SL** (Do not add any surfactant when **2,4-D AMINE 480 SL** is used in a tank mixture). Refer to the **Terbucide Plus 900 WDG**, **Pentium 960 EC** and **Slash High Load 600SL** labels for **USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

Compatibility:

- **2,4-D AMINE 480 SL** is compatible with **AGRIZINE 500 SC** (L 5387 / W 130121), **Astron® 480 SC/Cantron® 480 SC**, **Astron® Smart 500 SC/Cantron® Smart 500 SC**, **CLASS ACT® NG** (L10477 / W 1301268), **Corvette 425 SC**, **DESTINAIRE®** (L 10598), **Direct**, **Flumetsulam 800 WDG**, **FORWARD 100 EC** (L 9036), **Glypho-2050/Replace**, **INTERLOCK®** (L 10254 / W 130875 / N-AR 1856), **Metolachlor 800 EC**, **Metolachlor 915 EC**, **Metolachlor 960 EC**, **Pentium 960 EC**, **Pentium Plus 915 EC**, **Premium 840 EC**, **Premium 900 EC**, **Series 240 EC**, **Slash High Load 600 SL**, **Slash Turbo 450 SL**, **Slash Plus 540 SL**, **Slash 710 SG**, **Summit Super**, **Terbucide 600 WDG**, **Trade 700 WDG**, **Terbucide Plus 900 WDG**, **TERBUSIEN SUPER 600 SC** (L 5435 (V) / N-AR 1110 / W 130958), **Velocity® DryMax** and **Velocity®-Super** as recommended on this label. It is also compatible with other soil insecticides.
- The compatibility of **2,4-D AMINE 480 SL** may be influenced by several factors. As factors influencing compatibility may vary, a physical compatibility test must always be performed before such tank mixture is sprayed.
- When **2,4-D AMINE 480 SL** is used in conjunction with any other agricultural remedy, all **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label, must be adhered to.

Mixing and application:

- Mix the required amount of **2,4-D AMINE 480 SL** with water and apply evenly as a medium spray.
- The exact amount of water to be used will depend on the spray apparatus but should be within 200 to 400 litres per hectare for ground application and a minimum of 30 litres per hectare for aerial application.
- In situations where drift may be hazardous, use low pressures of 100 to 200 kPa or low drift nozzles or add a drift retardant adjuvant, such as **Interlock®**, when spraying.

Post-emergence application:

- Spray before the crop becomes too dense, which will prevent weeds from being properly covered.
- Spray when the crop is at a suitable stage of development, as indicated below, preferably, when the weeds are in a young stage and the soil is moist.

- Do not spray under cold conditions.
- Avoid spraying when the weeds are exposed to excessive heat, drought, cold, wet covered in dust or injured by frost.

Ground application:

- Avoid fine droplet sizes – use low-pressure flat fan nozzles of 80 degrees or equivalent anti-drift type and do not exceed a spray pressure of 200 kPa. Spray volume must exceed 150 litres per hectare.
- Do not exceed a spray height of 50 cm above target and ground speed of 10 km per hour.
- Do not apply if the wind velocity exceeds 15 km per hour.
- The difference between the wet and dry bulb readings on a whirling hygrometer must not exceed 8 °C.

Aerial application: Do not apply this product by air in KwaZulu-Natal.

Aerial application of **2,4-D AMINE 480 SL** 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 mixture during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- Volume: A spray mixture volume of 30 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: 30 to 40 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.
- The use of a suitable drift retardant and/or low drift nozzles (e.g. straight stream nozzles) is recommended. In case of fixed-wing aircraft flying at a speed faster than 130 mph, the maximum deflection angle of nozzles or spray stream, as measured from a horizontal straight backwards orientation, may not exceed 30 degrees. In the case of slower flying fixed wing aircraft, the maximum deflection angle as described above, may not exceed 55 degrees.
- Flying height: Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when the 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 atomizers 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:
 - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - b) 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**1. CROP SPECIFIC RECOMMENDATIONS****TABLE 1.1**

Crop / Soil Type	Dosage per hectare	Remarks
Maize (post-emergence) after crop reaching a height of 30 to 45 cm	2.0 ℓ (100 ml / 10 ℓ)	Ground application ONLY: Use drop-arms for directional spraying , so that the spray does not land in the funnel. <i>Striga asiatica</i> (Witchweed) should be sprayed when the first flowers are noticed. Maize may become brittle and malformed after application, but this is usually of a temporary nature.
Grain sorghum (post-emergence)	2.0 ℓ (100 ml / 10 ℓ)	Ground and Aerial application: Apply when plants are 15 to 25 cm high, about 3 weeks after emergence of the crop. Spray may be applied later, provided directional spraying using drop arms is practiced.
Grass pastures and Lawns (established)	3.3 to 4.4 ℓ (165 to 220 ml / 10 ℓ)	Ground application ONLY: For lawns, a repeat application may be necessary. Applications of a nitrogenous fertilizer 2 to 3 weeks before spraying are recommended. Use the higher rate on severe weed infestations or less susceptible weed stages.
Barley and Rye (post-emergence)	1.5 to 2.6 ℓ	Ground and Aerial application: Spray when crop is in the 5-leaf stage. Use the higher rate for severe weed infestation
Wheat (post-emergence)	1.5 to 2.6 ℓ	Ground and Aerial application: Apply between growth stages 7 (centre of double ridges enlarged) and 13 (awn of the top spikelets elongated) according to the list of growth stages for wheat, compiled by Small Grain Institute, Bethlehem.

Crop / Soil Type	Dosage per hectare	Remarks
Potatoes (pre-emergence) < 20 % clay	2.6 ℓ (130 ml / 10 ℓ)	Ground and Aerial application: If the crop was dry planted, harrow immediately after the first rain and apply.
21 to 35 % clay	3.5 ℓ (130 ml / 10 ℓ)	
> 36 % clay	4.5 ℓ (130 ml / 10 ℓ)	
Sugarcane (pre- or post-emergence)	5.25 to 7.25 ℓ	Ground and Aerial application: a) Pre-emergence to plant and ratoon cane: Apply before the weeds emerge. b) Post-emergence: The weeds should still be young. The treatment can cause cane damage and the danger of this occurring will be minimized, if the applications are directed so, as to avoid as far as possible the wetting of the cane leaves. If the cane exceeds a height of 40 cm or has unfurled more than 5 leaves per shoot, directed spraying must be carried out or else the growth may be retarded. Use the higher rate for severe weed infestation or for less susceptible weed stages.
Maize (All soil types) Grain sorghum (> 15 % clay) (post-emergence)	0.75 ℓ (37.5 ml / 10 ℓ) PLUS 2.0 ℓ (100 ml / 10 ℓ) Agrizine 500 SC OR 0.5 ℓ (25 ml / 10 ℓ) PLUS 1.7 ℓ (85 ml / 10 ℓ) Terbusien Super 600 SC	Ground application ONLY: This tank mix is recommended for broadleaf weed control, except where a Triazine herbicide has already been applied pre-emergence at full dosage rate and where a grass killer has been applied prior to, or at the time of planting of maize and grain sorghum. Spray onto actively growing weeds up to 10 cm high. If the crop is higher than 40 cm, directed spraying is recommended in order to achieve better wetting of the weeds. Do not apply under wet and cold conditions, since the crop may then be adversely affected.

Crop / Soil Type	Dosage per hectare	Remarks
Maize	0.75 ℓ (37.5 ml / 10 ℓ) PLUS 1.3 ℓ (65 ml / 10 ℓ) Terbusien Super 600 SC OR	Ground application ONLY: These tank mixtures are recommended for broadleaf weed control, except where a Triazine herbicide has already been applied pre-emergence at full dosage rate and where a grass killer has been applied prior to, or at the time of planting of maize. Spray weeds early post-emergence i.e. not larger than the 4-leaf stage or 100 mm in height. If application is performed at a late stage, the yield may be reduced due to weed competition. On the other hand, weaker control may result if the weeds are allowed to grow larger. When the maize is taller than 400 mm, a directed spray must be applied, to ensure better coverage of weeds.
	0.25 ℓ (12.5 ml / 10 ℓ) PLUS 60 g (3 g / 10 ℓ) Trade 700 WDG PLUS 1.7 ℓ (85 ml / 10 ℓ) Terbusien Super 600 SC OR	
	1.7 kg (85 g / 10 ℓ) Terbucide 600 WDG	Do not apply under wet and cold conditions, since the crop may be affected adversely.
IMPORTANT		
<ul style="list-style-type: none"> Under cold and wet or hot and humid conditions 2,4-D AMINE 480 SL may retard the development of prop roots in maize. For this reason, the lower dosage rate of 2,4-D AMINE 480 SL is preferred. Where Bengal wandering Jew (<i>Commelina benghalensis</i>) and Dubbeltjie (<i>Tribulus terrestris</i>) forms an important part of the weed spectrum, the higher dosage rate of 2,4-D AMINE 480 SL is preferred. 		

TABLE 1.2 Pre-plant burndown / pre-emergence application for the control of weeds in maize in a NO TILL situation.

2,4-D AMINE 480 SL 1 ℓ / ha	PLUS Astron® Smart 500 SC 2.5 ℓ / ha	PLUS Pentium Plus 915 EC 0.78 ℓ / ha
Velocity®-Super is added at a rate of 2 % v/v.		
Refer to the Astron® Smart 500 SC and Pentium Plus 915 EC labels for list of weeds controlled as well as “ USE RESTRICTIONS ” and “ DIRECTIONS FOR USE ”.		
Do not plant within seven (7) days after the above application.		
See TABLE below for additional weeds species controlled.		
ADDITIONAL WEED SPECIES CONTROLLED WITH THE ABOVE TANK MIXTURE		
Post-emergence of weeds:		
<i>Conyza sumatrensis</i> *	Tall fleabane	
<i>Conyza bonariensis</i> *	Hairy fleabane	
<i>Eleusine Africana</i>	Goose grass	
<i>Digitaria sanguinalis</i>	Large crabgrass	
<i>Senecio consanguineous</i> *	Starvation bush	

*The dosages recommended, aim to cover a broad spectrum of weeds if they are sprayed before upright growing weeds reach 10 cm in height or flat growing weeds reach the 4 to 6 stage.

POST-EMERGENCE APPLICATION OF 2,4-D AMINE 480 SL PLUS ASTRON® 480 SC PLUS TERBUSIEN SUPER 600 SC ON MAIZE FOR IMPROVED CONTROL OF MORNING GLORY AND OTHER PROBLEM WEEDS

NOTES

- Apply this post-emergence application as follow-up to a pre-emergence application of **Astron® 480 SC** in tank mixture with **Metolachlor 800 EC** or **Metolachlor 915 EC** or **Premium 840 EC** as indicated on the registered labels.
- Apply post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds.
- Certain weeds may not be controlled effectively at the lower dosage rates.

TABLE 1.3

2,4-D AMINE 480 SL 250 ml / ha	PLUS	PLUS
	Astron® 480 SC 260 ml / ha	Terbusien Super 600 SC 600 to 800 ml / ha
Refer to the Astron® 480 SC label for specific dosage rate combinations and weeds controlled as well as for USE RESTRICTIONS and DIRECTIONS FOR USE .		

POST-EMERGENCE APPLICATION OF 2,4-D AMINE 480 SL PLUS CORVETTE 425 SC ON MAIZE FOR IMPROVED CONTROL OF PROBLEM WEEDS

TABLE 1.4

2,4-D AMINE 480 SL 250 to 500 ml / ha	PLUS	Corvette 425 SC 0.8 to 1.6 l / ha
	Refer to the Corvette 425 SC label for specific dosage rate combinations and weeds controlled as well as for “USE RESTRICTIONS” and “DIRECTIONS FOR USE” .	

POST-EMERGENCE APPLICATION OF 2,4-D AMINE 480 SL PLUS ASTRON® 480 SC PLUS TERBUSIEN SUPER 600 SC PLUS METOLACHLOR 960 EC OR PREMIUM 900 EC ON MAIZE FOR EXTENDED CONTROL OF ANNUAL GRASS WEEDS

NOTES

- Apply this post-emergence application as follow-up to a pre-emergence application of **Astron® 480 SC** in tank mixture with **Metolachlor 800 EC** or **Metolachlor 915 EC** or **Premium 840 EC** as indicated on the registered labels.
- Apply post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds.
- Certain weeds may not be controlled effectively at the lower dosage rates.

TABLE 1.4

2,4-D AMINE 480 SL 250 ml / ha	PLUS	PLUS	PLUS
	Astron® 480 SC 260 ml / ha	Metolachlor 960 EC OR Premium 900 EC 210 to 780 ml / ha	Terbusien Super 600 SC 600 to 800 ml / ha
Refer to the Astron® 480 SC label for specific dosage rate combinations and weeds controlled as well as for USE RESTRICTIONS and DIRECTIONS FOR USE .			

POST-EMERGENCE APPLICATION OF 2,4-D AMINE 480 SL PLUS TERBUSIEN SUPER 600 SC PLUS FLUMETSULAM 800 WDG ON MAIZE FOR IMPROVED CONTROL OF CERTAIN BROADLEAF WEEDS

TABLE 1.5

2,4-D AMINE 480 SL 500 ml / ha	PLUS	PLUS
	Terbusien Super 600 SC 850 ml / ha	Flumetsulam 800 WDG 18 g / ha 0 to 10 % clay OR 26 g / ha > 10 % clay

IMPORTANT

- Refer to the **Terbusien Super 600 SC** and **Flumetsulam 800 WDG** labels for weed species controlled as well as **USE RESTRICTIONS** and **DIRECTIONS FOR USE**.
- Follow the specific product's recommendations.

2. 2,4-D AMINE 480 SL IN TANK MIXTURES WITH GLYPHOSATE FORMULATIONS

General:

- **2,4-D AMINE 480 SL** can be applied at a maximum rate of 0.75 litre per hectare in tank mixtures with **Slash Turbo 450 SL**, **Slash Plus 540 SL** and **Slash 710 SG** for improved control of certain broadleaf weeds.
- **DO NOT** plant any broadleaf crop (i.e., soybeans) within 14 days following a pre-plant application with **2,4-D AMINE 480 SL**, to prevent crop damage.
- Refer to the specific **Glyphosate** product labels for dosage rates and weed species controlled.
- Follow the specific product's recommendations as well as **USE RESTRICTIONS** and **DIRECTIONS FOR USE**.
- The adjuvant **Glypho-2050/Replace** can be added to the tank mixture to overcome the antagonism of the phenoxy herbicide **2,4-D AMINE 480 SL** on **Glyphosate**. Refer to the **Glypho-2050/Replace** label for the **USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

TABLE 2.1: Pre-plant application of 2,4-D AMINE 480 SL plus Slash 710 SG for control of weeds in cereal crops in the Western Cape*.

2,4-D AMINE 480 SL 0.75 l / ha (37.5 ml / 10 l)	PLUS Slash 710 SG 1.0 kg / ha (50 g / 10 l)
Refer to the Slash 710 SG label for list of weeds controlled as well as USE RESTRICTIONS and DIRECTIONS FOR USE .	

TABLE 2.2: Tank mixtures with Forward 100 EC for the post-emergence control of Glyphosate tolerant volunteer maize, broadleaf weeds and grasses, pre-plant in maize

2,4-D AMINE 480 SL	PLUS	PLUS	PLUS
1 ℓ / ha (50 ml / 10 ℓ)	Slash 710 SG 1.5 kg/ha (75 g / 10 ℓ)	Forward 100 EC 0.75 ℓ / ha (37.5 ml / 10 ℓ)	A Villa approved Ammonium sulphate adjuvant PLUS 0.1 % Direct

NOTES Applications with Forward100 EC:

- Ensure thorough coverage of the weeds. Use a minimum of 200 litres spray mixture per hectare.
- If arable fields are prepared for planting, **DO NOT** plant any grain crops such as maize or grain sorghum within 10 days after an application of **Forward 100 EC** at a dosage rate of 0.75 ℓ / ha.
- **DO NOT** apply **Forward 100 EC** in a tank mixture with any broadleaf herbicides other than these mentioned above. Allow at least three (3) days between the application of **Forward100 EC** and a broadleaf herbicide.
- Apply **Forward 100 EC** after the crop has reached 4 to 6 leaf stage.
- Crops may sometimes exhibit chlorotic spots on the foliage. These symptoms will disappear with time and without any influence on further growth, yield or quality.

TABLE 2.3: Tank mixtures with Series 240 EC for the pre-plant control of volunteer Glyphosate resistant maize plus difficult to control broadleaf weeds and grasses

2,4-D AMINE 480 SL	PLUS	PLUS	PLUS
1 ℓ / ha (50 ml / 10 ℓ)	Slash 710 SG 1.5 kg/ha (75 g / 10 ℓ)	Series 240 EC 0.5 to 1 ℓ / ha (25 to 50 ml / 10 ℓ)	Adjuvants*

NOTES Applications with Series 240 EC:

- Ensure thorough coverage of the weeds. Apply in at least 150 litres water per hectare.
- For applications with **Series 240 EC**, no withholding period is needed for follow-up broadleaf crops.
- For applications in maize and other grass crops, **IF DOSAGE RATES DO NOT EXCEED 0.5 L/HA, A PRE-PLANT INTERVAL OF 7 DAYS ARE RECOMMENDED. WHERE DOSAGE RATES EXCEED 0.5 L/HA, THE PRE-PLANT INTERVAL SHOULD NOT BE LESS THAN 30 DAYS.** It is not recommended to use a rate higher than 0.5 ℓ / ha where grass crops are to be planted.
- Apply the higher dosage rate to bigger plants up to 8-leaf stage.
Allow at least four (4) days after a **Series 240 EC** application before applying any other agrochemical treatment.

*** NOTE - ADJUVANTS**

1. For all crops **except Canola**, one of the following adjuvants may be added to the above-mentioned spray mixtures:

- 0.1 % **Link** plus 2.0 % **Velocity® Super** or 1.0 % **Velocity® DryMax**.
OR
- 0.3 % **Summit Super** plus 2.0 % **Velocity® Super** or 1.0 % **Velocity® DryMax**.
OR
- 1 to 2 % **Class Act® NG**.
OR
- 1 ℓ / ha (50 ml / 10 ℓ) **Destinaire®** plus 2.0 % **Velocity® Super** or 1.0 % **Velocity® DryMax**.
AND
- 0.3 ℓ / ha (15 ml / 10 ℓ) **Interlock®** per hectare.

2. For **Canola**, add 0.1 % **Link** plus 2.0 % **Velocity® Super** or 1.0 % **Velocity® DryMax** or 1 to 2 % **Class Act® NG**.

AND

- 0.3 ℓ / ha (15 ml / 10 ℓ) **Interlock®** per hectare.

Consult the applicable product labels for **WARNINGS, PRECAUTIONS, WITHHOLDING PERIODS** and **DIRECTIONS FOR USE**.

SOME WEED SPECIES NORMALLY CONTROLLED BY 2,4-D AMINE 480 SL:	
Post-emergence:	
<i>Ageratum conyzoides</i>	Blue weed
<i>Amaranthus hybridus</i>	Cape pigweed
<i>Arctotis leiocarpa</i>	Karoo daisy (early rosette stage)
<i>Arctotis venusta</i>	Free State daisy
<i>Bidens bipinnata</i>	Spanish blackjack
<i>Bidens formosa</i>	Cosmos
<i>Bidens pilosa</i>	Common blackjack
<i>Chenopodium album</i>	White goosefoot
<i>Commelina benghalensis</i>	Wandering Jew
<i>Datura ferox*</i>	Large thorn apple
<i>Datura stramonium*</i>	Thorn apple
<i>Galinsoga parviflora</i>	Small-flowered quick weed
<i>Polygonum aviculare</i>	Prostrate knotweed
<i>Portulaca oleracea</i>	Purslane
<i>Raphanus raphanistrum</i>	Wild radish
<i>Striga asiatica</i>	Witchweed
<i>Tagetes minuta</i>	Tall khaki weed
<i>Vicia hirsuta</i>	Tiny purple vetch
<i>Vicia sativa</i>	Broad-leaved purple vetch
<i>Xanthium strumarium</i>	Cocklebur
* - In the 2- to 3-leaf stage.	
Pre-emergence ONLY:	
<i>Brachiaria eruciformis</i>	Sweet signal grass
<i>Eleusine indica</i>	Goose grass
<i>Panicum schinzii</i>	Vlei Panicum (early germinating)
<i>Setaria verticillata</i>	Bur bristle grass
<i>Sorghum verticilliflorum</i>	Common wild Sorghum

Consult the **Agrazine 500 SC**, **Astron® 480 SC/ Cantron® 480 SC**, **Class Act® NG**, **Destinaire®**, **Direct**, **Flumetsulam 800 WDG**, **Forward 100 EC**, **Metolachlor 800 EC**, **Premium 840 EC**, **Metolachlor 960 EC**, **Metolachlor 915 EC**, **Premium 900 EC**, **Terbucide 600 WDG**, **Slash Turbo 450 SL**, **Series 240 EC**, **Slash Plus 540 SL**, **Slash 710 SG**, **Terbusien Super 600 SC** and **Trade 700 WDG** labels for **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE**.

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

- **ASTRON® 480 SC** (L 8366) = **CANTRON® 480 SC** (L 8365 / W 130651 / N-AR 1323) = **CANONNE 480 SC** (L 8735) (**Mesotrione**),
- **ASTRON® SMART 500 SC** (L 9832) = **CANTRON® SMART 500 SC** (L 9834) (**Mesotrione/Glyphosate**),
- **CORVETTE 425 SC** (L 8323 / W 130650 / N-AR 1322) = **CRUX 425 SC** (L 8325) (**Sulcotrione/Atrazine**),
- **LINK** (L 8675) = **DIRECT** (L 8680) (**Adjuvant**),
- **FLUMETSULAM 800 WDG** (L 8062 / W1301369) = **LAUREL 800 WDG** (L 8061 / N-AR 1339 / W1301422),
- **GLYPHO-2050** (L 10040) = **REPLACE** (L 10096) (**Adjuvant**),
- **METOLACHLOR 800 EC** (L 7433) = **METOLACHLOR 800 EC** (L 7137),
- **PENTIUM 960 EC** (L 9830) = **PALLADIUM 960 EC** (L 9360 / W 130772) = **PARTISAN 960 EC** (L 9964),
- **PENTIUM PLUS 915 EC** (L 9741) = **PALLADIUM PLUS 915 EC** (L 9359 / W 1301000) = **PARTISAN PLUS 915 EC** (L 9942) (**S-metolachlor**),
- **PLATINUM PLUS 915 EC** (L 7844) = **METOLACHLOR 915 EC** (L 7841 / N-AR 1361 / W1301418),
- **PREMIUM 840 EC** (L 8066) = **LEAP 840 EC** (L 8064 / N-AR 1103 / W1301419) (**Acetochlor**),
- **PLATINUM 960 EC** (L 7434) = **METOLACHLOR 960 EC** (L 7136 / W 130057 / N-AR 1362),
- **PREMIUM 900 EC** (L 7637) = **ACETOCHLOR 900 EC** (L 7633 / N-AR 1101 / W1301407),
- **SERIES 240 EC** (L 8913 / W 130874) = **SEQUAL 240 EC** (L 8912) (**Clethodim**),
- **SLASH PLUS 540 SL** (L 8819) = **PANGA PLUS 540 SL** (L 8818) = **LYNCH PLUS 540 SL** (L 8816) (**Glyphosate**),
- **SLASH 710 SG** (L 8450 / W 130058 / N-AR 2190) = **GLYGRAN 710 SG** (L 8449) = **LYNCH 710 SG** (L 8670) (**Glyphosate**),

- **SLASH HIGH LOAD 600 SL (L 9734) = PANGA HIGH LOAD 600 SL (L 9735) = LYNCH HIGH LOAD 600 SL (L 10055) (Glyphosate),**
- **SLASH TURBO 450 SL (L 8505) = PANGA TURBO 450 SL (L 8506) = LYNCH TURBO 450 SL (L 8754) (Glyphosate),**
- **SUMMIT SUPER (L 8539) = BENEFIT PLUS (L 8538) (Adjuvant),**
- **TERBUCIDE 600 WDG (L 8799 / W1301046) = TERBUWEED 600 WDG (L 8800) = TERBUMAIS 600 WDG (L 8798) (Terbutylazine),**
- **TERBUCIDE PLUS 900 WDG (L 9888 / W130866) = TERBUWEED DUO 900 WDG (L 9890) = TERBUMAIS PLUS 900 WDG (L 9998) (Terbutylazine + Atrazine),**
- **TRADE 700 WDG (L 9228) = TRANSFER 700 WDG (L 9227) (Dicamba),**
- **VELOCITY® DRYMAX (L 9454 / N-AR 1528 / W 130995) = AMS-GRANULE (L 9610) (Ammonium sulphate) and**
- **VELOCITY®SUPER (L 9603 / W 130996) = AMS-SUPER (L 9758) = GLYPHO BOOST (L 7757) (Ammonium sulphate).**

AGRIZINE 500 SC, CORVETTE 425 SC, FLUMETSULAM 800 WDG, METOLACHLOR 915 EC, METOLACHLOR 960 EC, METOLACHLOR 800 EC, PENTIUM 960 EC, PREMIUM 840 EC, PREMIUM 900 EC, PENTIUM PLUS 915 EC, REPLACE, GLYPHO-2050, LINK, SERIES 240 EC, SLASH HIGH LOAD 600 SL, SLASH PLUS 540 SL, SLASH TURBO 450 SL, SLASH 710 SG TERBUCIDE 600 WDG, TERBUCIDE PLUS 900 WDG and TRADE 700 WDG, are registered products of UNIVERSAL CROP PROTECTION (PTY) LTD.

ACETOCHLOR 900 EC, AMS-GRANULE, AMS-SUPER, BENEFIT PLUS, CRUX 425 SC, DIRECT, FORWARD 100 EC, GLYGRAN 710 SG, GLYPHO BOOST, LAUREL 800 WDG, LEAP 840 EC, METOLACHLOR 800 EC, PALLADIUM 960 EC, PLATINUM PLUS 915 EC, PLATINUM 960 EC, PANGA HIGH LOAD 600 SL, PANGA PLUS 540 SL, PANGA TURBO 450 SL, PALLADIUM PLUS 915 EC, SEQUAL 240 EC, SUMMIT SUPER, TERBUWEED 600 WDG, TERBUWEED DUO 900 WDG, TERBUSIEN SUPER 600 SC and TRANSFER 700 WDG are registered products of VILLA CROP PROTECTION (PTY) LTD.

PARTISAN PLUS 915 EC, CANONNE 480 SC, PARTISAN 960 EC, TERBUMAIS 600 WDG, TERBUMAIS PLUS 900 WDG, LYNCH HIGH LOAD 600 SL, LYNCH PLUS 540 SL, LYNCH 710 SG and LYNCH TURBO 450 SL are registered products of CROPASURE (PTY) LTD.

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