

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



2,4-D ESTER 500 EC

Reg. No. L 5792 Act/Wet No. 36 of/van 1947

5: 16/5/2013 – Oct2018

*An emulsifiable concentrate herbicide with selective hormone action for the control of broad-leaved weeds in crops as indicated.*

*'n Emulgeerbare konsentraat onkruidodder met selektiewe hormoonaksie vir die beheer van breëblaaronkruid in gewasse soos aangedui.*

**ACTIVE INGREDIENT / AKTIEWE BESTANDEEL**

octyl (2,4-dichlorophenoxy) acetate **500 g/l a.e.** oktiel (2,4-dichloorfenoksie) asetaat  
(as the 2,4-D-iso-octyl ester **757.46 g/l** as die 2,4-D-iso-oktiel ester)

HRAC HERBICIDE GROUP CODE **O** HRAC ONKRUIDDODER GROEPKODE



**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

Tel: 011 396 2233

Website / Webblad: [www.villacrop.co.za](http://www.villacrop.co.za)

UN Number: 3082

Willow Set & Print 011 394-4486



HARMFUL  
SKADELIK



GERUKSAANWYSINGS 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:

**2,4-D ESTER 500 EC**

Reg. No. L 5792 Act/Wet No. 36 of/van 1947

HRAC HERBICIDE GROUP CODE / HRAC ONKRUIDDODER GROEPKODE: O

**ACTIVE INGREDIENT / AKTIEWE BESTANDEEL:**

octyl (2,4-dichlorophenoxy)acetate / oktiel (2,4-dichloorfenoksie)asetaat .....500 g/l a.e.  
 (as the 2,4-D-iso-octyl ester / as die 2,4-D-isoöktiel ester).....757.46 g/l

Registration holder / Registrasiehouer:

**VILLA CROP PROTECTION (PTY) LTD.**

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

PO Box / Posbus 10413,

ASTON MANOR, 1630, Tel. (011) 396 2233

**HARMFUL****SKADELIK****WARNINGS**

- **Withholding period: Allow one week between the last application and harvest or grazing.**
- Handle with care.
- Poisonous when swallowed.
- Moderate eye irritant.
- Toxic to bees and fish.
- 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.**

**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 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**

- Wear protective clothing: a face shield, rubber gloves and boots when handling the concentrate, preparing the spray mixture and during application.
- Avoid inhalation of the spray mist and vapour while mixing or applying.
- Wash contaminated clothing after use.
- Wash with soap and water immediately after use, handling or after accidental skin contact.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face and change of clothing.
- Clean the applicator with a household ammonia solution (1 %) before using other pesticides. Let the solution stand for several hours, preferably overnight. 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** 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 minimum of 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.
- Prevent contamination of food, feeds, drinking water and eating utensils.

**SYMPTOMS OF HUMAN POISONING**

Harmful. Over-exposure to or swallowing of product may cause nausea, vomiting, excessive sweating, headache, 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 warm and at rest. Treat symptomatically and supportively. Only qualified medical personnel should perform administration of oxygen. **Get medical attention immediately if condition persists.**
- **Skin contact:** If irritation occurs, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts). 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 gently flowing 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. **Seek medical attention immediately.**
- **Ingestion:** Have patient rinse mouth thoroughly with water. Do not induce vomiting. If person is alert and conscious, give 2 to 3 glasses of water to drink. **Seek medical attention immediately.**

**NOTE TO PHYSICIAN**

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

**RESISTANCE WARNING**

**2,4-D ESTER 500 EC** is a group code O herbicide. Any weed population may contain individuals naturally resistant to **2,4-D ESTER 500 EC** and other group code O 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 ESTER 500 EC** or any other group code O 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.

**USE RESTRICTIONS**

- Hazardous to use in the vicinity of any broadleaf crop.
- Do not, under any circumstances, use in the vicinity of sensitive crops, fruit trees or ornamental plants.
- Application under humid, wind still or warm, windy (more than 15 km per hour) conditions is extremely hazardous.
- Phytotoxicity to sensitive crops some distance away, is a distinct possibility.
- Apply the product strictly in accordance with the “**DIRECTIONS FOR USE**” application directions.

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

**2,4-D ESTER 500 EC** is compatible with **EXPRESS® SUPER** (L 8212) for use in wheat in the summer rainfall wheat production areas (Free State).

**Ground application:**

- Avoid fine droplet size. Use low-pressure flat fan nozzles of 80 degrees or equivalent anti-drift type nozzles. **Do not** exceed spray pressure of 200 kPa.
- Spray volume must exceed 150 litres per hectare.
- **Do not** exceed a spray height of 50 cm above the target and a ground speed of 10 km per hour.
- **Do not** apply if 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.

**Post-emergence application:**

- Dilute the required amount of **2,4-D ESTER 500 EC** in not less than 150 litres water per hectare for overall application.
- Spray when the crop is at a suitable stage of development as indicated below, when the weeds are in a young stage and soil is moist.
- Do not spray under cold conditions.

**Mixing and application:**

- Mix the required amount of **2,4-D ESTER 500 EC** 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 150 to 400 litres per hectare for ground application.

**APPLICATION RATES**

| <b>Crop</b>  | <b>Dosage / ha</b> | <b>Remarks</b>  |
|--|--------------------|---|
| <b>Wheat</b><br>(post-emergence)                         | 0.7 to 1.7 ℓ       | Apply between growth stages 7 (centre of double ridges enlarged) and 13 (awn of top spikelets elongated), according to the list of growth stages for wheat drawn up by the ARC-Small Grain Institute, Bethlehem. Use the lower dosage if the weeds have not progressed beyond the 4-leaf stage. Use is restricted to dry land wheat planted from April to August in the summer rainfall area.   |
| <b>Sugarcane – Plant and ratoon:</b><br>(post-emergence) | 4.7 to 6.7 ℓ       | The weeds should still be young. The treatment can cause cane damage but the danger of this occurring will be minimised, 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 45 cm or has unfurled more than 5 leaves per shoot, directed spraying on the weeds 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. Use 300 to 400 litres of water per hectare. |
| <b>Grass pastures</b><br>(established)                   | 2.0 to 3.0 ℓ       | Application of nitrogenous fertilizer 2 to 3 weeks before spraying established pastures is recommended. Use the higher rate for severe weed infestation or less susceptible weed stages.  |

**SOME WEED SPECIES NORMALLY CONTROLLED**

| <b>Post-emergence:</b>        |                    |
|-------------------------------|--------------------|
| <i>Amaranthus deflexus</i>    | Pigweed            |
| <i>Amaranthus hybridus</i>    | Cape pigweed       |
| <i>Amaranthus spinosus</i>    | Thorny pigweed     |
| <i>Amaranthus thunbergii</i>  | Red pigweed        |
| <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>Polygonum aviculare</i>    | Prostrate knotweed |
| <i>Portulaca oleracea</i>     | Purslane           |
| <i>Tagetes minuta</i>         | Tall khaki weed    |
| <i>Xanthium strumarium</i>    | Cocklebur          |

\* - In the 2 to 3 leaf stage.

**EXPRESS® SUPER** is a registered product of / is 'n geregistreerde produk van  
**DuPont De Nemours Int SA.**