

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Insecticide



PARATHION 500 EC

Reg. No. L 4297 Act/Wet No. 36 of/van 1947

S: 10/02/2012 – June2017

An emulsifiable concentrate contact and stomach poison for the control of insect pests on agricultural crops as indicated.

'n Emulgeerbare konsentraat kontak- en maaggif vir die beheer van insekplae op landbougewasse soos aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL
parathion (organophosphate) **500 g/l** paration (organofosfaat)

IRAC INSECTICIDE GROUP CODE **1B** IRAC INSEKDODER GROEPKODE



villa

Registration holder / Registrasiehouer:
Universal Crop Protection (Pty) Ltd.
Co. Reg. No. / Mpy. Reg. Nr. 1983/008184/07
PO Box / Posbus 801, Kempton Park, 1620
Tel: 011 396 2233
Website / Webblad: www.villacrop.co.za

UN Number: 3018

Willow Set & Print 011 394-4486



VERY TOXIC
UITERS GIFTIG



GERUUKSAANWYSYNGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:

Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:

Lotnummer:

PARATHION 500 EC

Reg. No. L 4297 Act/Wet No. 36 of/van 1947

IRAC INSECTICIDE GROUP CODE / IRAC INSEKODER GROEPKODE: 1B

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL:

parathion (organophosphate) / paration (organofosfaat)..... 500g/l

Registration holder / Registrasiehouer:

UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07 Mpy. Reg. Nr.

P.O. Box / Posbus 801

KEMPTON PARK, 1620 Tel. (011) 396 2233

**VERY TOXIC****UITERS GIFTIG****WARNINGS****Withholding period:**

Minimum time between the last application and harvest or feeding:	
All applicable crops	21 days

NOTE

IN THE CASE OF CROPS INTENDED FOR EXPORT, CONFIRM WITHHOLDING PERIODS WITH THE RELEVANT EXPORTING ORGANISATION. IF THIS PRODUCT IS USED ACCORDING TO THE RECOMMENDATIONS ON THIS LABEL, THE LOCAL MRL VALUES WILL NOT BE EXCEEDED. HOWEVER, UNIVERSAL CROP PROTECTION (PTY) LTD. CANNOT ACCEPT RESPONSIBILITY FOR EXPORTED CROPS EXCEEDING THE IMPORT TOLERANCES OF OTHER COUNTRIES.

- Do not use on tomatoes, potatoes, cucurbits and grapevines or in deciduous fruit orchards.
- Handle with extreme care.
- Poisonous when absorbed through the skin or swallowed or inhaled.
- Irritating to eyes and skin.
- Toxic to fish, bees and wildlife.
- **Volatile:** do not open in enclosed spaces.
- Store in a cool, dry, well-ventilated place in the original container, tightly closed and secured.
- Store under lock and key, 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 2 days after treatment unless wearing protective clothing.
- **In case of poisoning call a physician 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.

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

- Avoid inhalation of the spray mist or fumes.
- Wear protective clothing, a suitable mask, rubber gloves and boots when handling the product, preparing the spray mixture and during application.
- Wash with soap and water after use and after accidental skin contact.

- Wash contaminated clothing after use.
- Do not eat, drink or smoke whilst mixing or applying the product, or before washing hands and face and change of clothing.
- Prevent drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Thoroughly clean 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.
- **Never** clear a choked sprayer by blowing with the mouth.
- Dampen spillage of the concentrate with washing soda and wash area thoroughly with plenty of water.
- Prevent contamination of food, feed, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Nausea, headache, tiredness, giddiness, blurred vision and pupillary constriction, vomiting, abdominal pain, diarrhoea, sweating and salivation. Confusion, ataxia, slurred speech, loss of reflexes are some of the central nervous system effects, which may lead to misdiagnosis as acute alcoholism. After inhalation of vapours, ocular and respiratory effects appear within minutes. These include marked miosis, ocular pain, conjunctival congestion, diminished vision, ciliary spasm and brow ache. With acute systemic absorption: rhinorrhea, hyperemia of upper respiratory tract, tightness in the chest and wheezing respiration. Severe intoxication: salivation, involuntary defecation and urination, sweating, lacrimation, penile erection, bradycardia and hypotension.

FIRST AID TREATMENT

- Remove the patient from the source of poisoning to a well-ventilated area and keep him/her calm and reassured.
- Skin contact: Remove contaminated clothing and rinse the contaminated body area thoroughly with plenty of soap and cold water. Do not rub the skin.
- Eye contact: Flush contamination out of eyes with clean water for at least 15 to 20 minutes, holding the eyelid(s) open.
- If swallowed: If the water diluted mixture has been swallowed, rinse mouth thoroughly with water.
- **Do not** induce vomiting due to the aromatic solvent.
- **Seek medical attention immediately.**
- Administer artificial respiration or closed chest cardiac massage if necessary.
- **Do not** apply mouth-to-mouth respiration.
- **Never** give anything by mouth to an unconscious person.
- **Take the patient immediately to the nearest physician.**

NOTE TO PHYSICIAN

Administer atropine as early as possible in an adequate dosage until signs of atropinisation (dry flushed skin, tachycardia and pulse rate of over 120 per minute) occur. To prevent gastrointestinal absorption by an unconscious patient that has swallowed this product, perform stomach lavage using bicarbonate solution and activated charcoal. In less severe cases begin with 2 mg atropine intravenously for adults or 0.05 mg atropine/kg body weight for children under 12 years of age and repeat administration of the drug at 15 to 30 minutes intervals. Morphine and similar drugs are contra-indicated. Avoid aminoglycosides and succinylcholine, which have a blocking effect on the neuromuscular junction. Phenothiazines, reserpine and theophylline are contra-indicated.

RESISTANCE WARNING

PARATHION 500 EC is a group code 1B insecticide. Any insect population may contain individuals naturally resistant to **PARATHION 500 EC** and any other group code 1B insecticide. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **PARATHION 500 EC** or any other group code 1B insecticide.

To delay insecticide resistance:

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

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

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

- Not compatible with alkaline spray products such as Urea, Bordeaux or Lime Sulphur.
- The compatibility of **PARATHION 500 EC** may be influenced by several factors. As factors influencing compatibility may vary, a physical compatibility test must always be performed, before such tank mixtures are sprayed.
- When **PARATHION 500 EC** is used in conjunction with any other agricultural remedy, all **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on these labels, must be adhered to.

Aerial application:

Aerial application of **PARATHION 500 EC** 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 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 aurally 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 250 to 280 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 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 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:
 - 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

Crop / Pest	Dosage Rate	Remarks
Castor oil Stinkbug	600 to 900 ml / ha	Aerial- or Ground application. Dosage depends on size of plants.
Cruciferae Bagrada bugs	75 ml / 100 l water	Spray full cover as soon as the Bugs are noticed, also on the surrounding soil. This Bug is usually more troublesome in autumn.
Caterpillars of the Diamond back moth & Greater cabbage moth	75 ml / 100 l water	Spray full cover, paying special attention to the undersides of the leaves, as soon as the infestation is noticed. Repeat when necessary.
Citrus Red-, Mussel-, Circular purple scale, Australian bug & Mealy bug	125 ml / 100 l water	Full cover spray early in the season only, after the previous crops has been picked. Usually at 80 to 100 % petal drop. Mature trees are sprayed once, while young trees may be re-sprayed sometimes, 6 to 8 weeks later.
Onions Thrips	75 ml / 100 l water	Apply at first sign of infestation and repeat at 7 to 10 day intervals. Do not use on spring onions.
Sorghum Aphids	650 ml / ha OR 200 to 300 ml PLUS 300 to 500 ml Dimethoate EC per ha	Spray when the Aphid numbers are increasing. Dosage depends on plant size and stage of growth.
Spineless cactus (prickly pear) Cochineal	60 ml / 100 l water	Full cover spray when the pest is noticed.
Wheat Aphids (Green & Brown)	650 ml / ha OR 200 to 300 ml PLUS 300 to 500 ml Dimethoate EC per ha	Spray when the Aphid numbers are increasing and very few Ladybirds or other predators and parasites are present. Dosage depends on plant size and stage of growth.
Russian aphid	650 ml PLUS 500 ml Demeton-S-methyl EC per ha	Spray young wheat as soon as the first Aphids are noticed. From the pipe stage onwards, only spray when 20 % of the plants are infested.