

READ THE LABEL BEFORE USE. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.  
FOR AGRICULTURAL USE ONLY!



# Insecticide

# DICHLORVOS 1000 EC

Reg. No. L 4640 Act No. 36 of 1947  
N-AR 0990 / W 130998

9. 29/06/2023 – Nov2023

An emulsifiable concentrate insecticide, with short residual action, for the control of pests as indicated.

**FOR AGRICULTURAL USE ONLY.**

## ACTIVE INGREDIENT

dichlorvos (organophosphate) 1000 g a.i./ℓ

GROUP

1B

INSECTICIDE



**DANGER**

### Hazard Statements:

Toxic if swallowed.  
May be fatal if swallowed and enters airways.  
Fatal in contact with skin.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Fatal if inhaled.  
Very toxic to aquatic life.

### Precautionary Statements:

Avoid breathing dust, fumes, mists, gas, vapours or spray.  
Do not get in eyes, on skin or on clothing.  
Avoid release to the environment.



UN Number: 3018

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.  
Co. Reg. No. 1983/008184/07  
65 Botes Road, Glen Marais, Kempton Park, 1619  
Tel. (011) 396 2233  
Website: [www.villacrop.co.za](http://www.villacrop.co.za)

IN CASE OF POISONING / 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)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED

Batch Number:  
Date of Manufacture:

**DICHLORVOS 1000 EC**

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IRAC INSECTICIDE GROUP CODE: 1B

**ACTIVE INGREDIENT:**

dichlorvos (organophosphate)..... 1000 g a.i./ℓ

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**WARNINGS****Withholding periods:**

<b>Minimum time between the last application and harvest or feeding:</b>	
Beans	3 days
Cruciferae vegetables (including cabbage, brussels sprouts, cauliflower & broccoli)	2 days
Grapes	7 days
Tomatoes	2 days

**Hazard statements:**

Toxic if swallowed
May be fatal if swallowed and enters airways.
Fatal in contact with skin.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Fatal if inhaled.
Very toxic to aquatic life.

- Do not use in grain mills or stores containing unsealed edible commodities. Due to continued fumigation effect (12 hours or more), overdosing and/or disregard of warnings and precautions can have serious consequences.
- Under no circumstances leave spilt concentrate or diluted spray around because the vapour released could be dangerous.
- Handle with extreme care.
- Toxic to bees and wildlife.
- 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 two (2) days 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 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****Precautionary statements:**

Avoid breathing dust, fumes, mists, gas, vapours or spray.
Do not get in eyes, on skin, or on clothing.
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.
In case of inadequate ventilation wear respiratory protection.
IF SWALLOWED: Get emergency medical help immediately.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
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.
Immediately call a POISON CENTER.
Get emergency medical help immediately.
Rinse mouth.
Do NOT induce vomiting.
If skin irritation or rash occurs: Get medical help.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local regulations

- Prevent drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- 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](http://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.
- Prevent contamination of food, feeds, drinking water and eating utensils.

<b>Relevant hazardous components</b>	
Dichlorvos	1000 g/l
Emulsifier	< 100 g/l
Solvent	< 300 g/l

### **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 is some of the central nervous system effects which may lead to misdiagnosis of 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.

**(NOTE: For more detailed information on symptoms of poisoning and treatment thereof, refer to following website: [www.villacrop.co.za](http://www.villacrop.co.za), products, SDS's, insecticides and product name).**

### **FIRST AID TREATMENT**

- **Inhaled:** 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, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with plenty of non-abrasive soap and cold water. Do not rub the skin. Obtain medical attention if irritation persists.
- **Eye contact:** Flush contamination out of eyes with clean running water for at least 15 to 20 minutes, holding the eyelid(s) open. Remove contact lenses if present and easy to do so. Continue rinsing.

- **If ingested:** If water diluted mixture has been swallowed, rinse mouth thoroughly with water. Do not induce vomiting due to 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 to the nearest physician immediately.

#### **NOTE TO PHYSICIAN**

Administer atropine as early as possible in an adequate dosage until signs of atropinisation (dry, flushed skin, tachycardia and pulse rate over 120 per minute) occur. To prevent gastrointestinal absorption by the unconscious patient who 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-minute 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.

#### **Mode of Action:**

**DICHLORVOS 1000 EC** acts by inhibiting acetylcholinesterase (AChE) by covalent (irreversible) reaction with the enzyme at the acetylcholine binding site, blocking hydrolysis of acetylcholine and resulting in hyperexcitation.

#### **RESISTANCE WARNING**

**DICHLORVOS 1000 EC** is a group code 1B insecticide. Any insect population may contain individuals naturally resistant to **DICHLORVOS 1000 EC** and other group code 1B insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **DICHLORVOS 1000 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:**

- Compatible with most insecticides and fungicides except alkaline products such as **Lime, Lime sulphur** and **Bordeaux mixture**. Mixing must be done immediately before spraying.
- The compatibility of **DICHLORVOS 1000 EC** 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 **DICHLORVOS 1000 EC** is used in conjunction with any other agricultural remedy, adhere to all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label.

#### **APPLICATION RATES**

<b><i>Crop / Pest</i></b>	<b><i>Dosage Rate</i></b>	<b><i>Remarks</i></b>
<b><u>Cruciferous vegetables</u></b> (including Cabbage, Brussels sprouts, Cauliflower and Broccoli)  Aphids, Caterpillars of the Diamond back moth & Greater cabbage moth	100 ml / 100 l water  <b>PLUS</b>  250 ml / ha <b>Charge</b>	Apply as a full cover spray when the pest is noticed. Give special attention to underside of leaves. Follow-up applications can be made at 10-day intervals.  <b>Do not apply more than three (3) applications per season.</b>
<b><u>Cherries</u></b> Slugs	50 ml / 100 l water	Full cover spray when the pest is noticed.
<b><u>Cut Flowers</u></b> Various flower pests (disinsection)	1 ml / m <sup>3</sup>	For mass treatment of cut flowers. Apply as a fine mist avoiding direct application to flowers. Cover immediately with an airtight plastic tarpaulin and leave for several hours to obtain full benefit of fumigant action. May be phytotoxic to certain flowers.

<b>Crop / Pest</b>	<b>Dosage Rate</b>	<b>Remarks</b>
<b>Flowers and Ornamentals</b> Mealy bug & Australian bug	100 ml / 100 ℓ water	Apply as a full cover spray. Ant control will materially assist in control of Mealy bug and Australian bug.
Semi-looper (Plusia)	100 ml / 100 ℓ water	Apply as a full cover spray. Repeat as necessary.
<b>Grapes</b> Mealy bugs	75 ml / 100 ℓ water (3.0 to 4.5 ℓ / ha)	<b>High Volume:</b> Use 4000 to 6000 litres spray mixture per hectare during spring and summer. Use 250 to 500 litres spray mixture per hectare in winter. Unless indicated differently, start spraying when pest is noticed, usually at the base of young shoots, during December. Thorough wetting is necessary. Use only as a supplementary spray to the standard programme. In the case of table grape cultivars with a relatively short harvesting period, apply one spray about 3 weeks after the last application of the standard programme. In the case of table grapes with a prolonged harvesting period, apply two sprays, the second 3 to 4 weeks after the first spray.
<b>Proteas</b> Blotch leaf miner & Canal leaf miner	100 ml / 100 ℓ water	Apply as a full cover spray when the pest is noticed.
<b>Tomatoes and Beans</b> Semi-looper (Plusia)	100 ml / 100 ℓ water	Apply as a full cover spray when the pest is noticed. Repeat as necessary.

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

- **CHARGE** (L 9100 / W 130953) = **TECHNIWET SUPER** (L 9239).

**CHARGE** and **TECHNIWET SUPER** are registered products of **VILLA CROP PROTECTION (PTY) LTD.**