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

‘n Emulgeerbare konsentraat insekdoder, met kort nawerking, vir die beheer van plae soos aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL
dichlorvos (organophosphate) 1000 g/l dichlorvos (organofosfaat)

IRAC INSECTICIDE GROUP CODE 1B IRAC INSEKDODER GROEPKODE

Registration holder / Registrasiehouer: Universal Crop Protection (Pty) Ltd.
PO Box / Posbus 801, Kempton Park, 1620  Tel. (011) 396-2233
Website / Webblad: www.villacrop.co.za

UN Number: 3017

Willow Set & Print 011 394-4486
ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL:
dichlorvos (organophosphate / organofosfaat) ................................................................. 1000 g/l

Registration holder / Registrasiehouer:
UNIVERSAL CROP PROTECTION (PTY) LTD.
P.O. Box / Posbus 801
KEMPTON PARK, 1620 Tel. (011) 396 2233

WARNINGS
Withholding periods:

<table>
<thead>
<tr>
<th>Crop</th>
<th>Minimum time between last application and harvest or feeding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tomatoes and Cabbages</td>
<td>2 days</td>
</tr>
<tr>
<td>Beans</td>
<td>3 days</td>
</tr>
<tr>
<td>Grapes</td>
<td>7 days</td>
</tr>
</tbody>
</table>

- 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.
- Poisonous when absorbed through the skin, swallowed or inhaled.
- Toxic to fish, bees and wildlife.
- Flammable - do not store or spray near open flames.
- 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 doctor and make this label available to him/her.

Aerial application:
Notify all inhabitants of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate adjacent areas or water.

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
- Do not inhale spray mist or fumes.
- Avoid contact with skin and eyes.
- Wear full protective clothing, suitable respirator, 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 10 % 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**
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 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: rhinorrhoea, 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, MSDS’s, insecticides and product name).

**FIRST AID TREATMENT**
- **Inhaled:** Remove patient from source of poisoning to a well-ventilated area and keep him/her calm and reassured.
- **Skin contact:** Remove contaminated clothing and rinse 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 running water for at least 15 to 20 minutes, holding the eyelid(s) open.
- **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.

**RESISTANCE WARNING**
**DICHLORVOS EC** is a group code 1B insecticide. Any insect population may contain individuals naturally resistant to **DICHLORVOS 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 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 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 EC** is used in conjunction with any other agricultural remedy, adhere to all WARNINGS, PRECAUTIONS and DIRECTIONS FOR USE mentioned on that label.

**Aerial application:**
Aerial application of **DICHLORVOS 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 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 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 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

<table>
<thead>
<tr>
<th>Crop / Pest</th>
<th>Dosage Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabbage</td>
<td>100 ml / 100 l water</td>
<td>Apply as a full cover spray when pest is noticed. Repeat weekly or as necessary. Give special attention to underside of leaves.</td>
</tr>
<tr>
<td>Cherries</td>
<td>50 ml / 100 l water</td>
<td>Full cover spray when pest is noticed.</td>
</tr>
<tr>
<td>Cut Flowers</td>
<td>1 ml / m³</td>
<td>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.</td>
</tr>
<tr>
<td>Laws</td>
<td>100 ml / 100 l water</td>
<td>Apply as a full cover spray. Ant control will materially assist in control of Mealy bug and Australian bug.</td>
</tr>
<tr>
<td>Lawns</td>
<td>100 ml / 100 l water</td>
<td>Apply when damage is noticed. Apply as a light full cover spray. A damp sack left on the lawn overnight will reveal infestation when the sack is removed the following morning.</td>
</tr>
<tr>
<td>Proteas</td>
<td>100 ml / 100 l water</td>
<td>Apply as a full cover spray when pest is noticed.</td>
</tr>
<tr>
<td>Tomatoes and Beans</td>
<td>100 ml / 100 l water</td>
<td>Apply as a full cover spray when pest is noticed. Repeat as necessary.</td>
</tr>
<tr>
<td>Grapes</td>
<td>75 ml / 100 l water (3.0 to 4.5 l / ha)</td>
<td>High Volume: 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.</td>
</tr>
<tr>
<td>Garbage-, Manure- and Compost heaps</td>
<td>250 to 500 ml / 100 l water</td>
<td>To control fly breeding, apply as a full cover spray, to the outside of the heaps, when fly breeding is noticed. Re-apply when fresh material is added.</td>
</tr>
<tr>
<td>Farmyards, Cowsheds, Stables, Pigsties and Storerooms Not for houses</td>
<td>25 to 50 ml / 10 l water</td>
<td>Apply as a coarse droplet treatment (watering can with a fine rose), at the rate of 2 litres spray mixture per 150 m³. May be applied with a mistblower at a rate of 1 litre spray mixture per 150 m³. Remove all animals and personnel and keep tightly closed for 12 hours. Avoid contamination of milk, milking utensils, food and feedstuffs.</td>
</tr>
</tbody>
</table>