

DEVIPAN™ 100


Reg. no. L4669 Act/Wet 36 of/van 1947
N-AR 0865

ONLY FOR AGRICULTURAL USE – SLEGS VIR LANDBOUGEBRUIK

**READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

GROUP	1B	INSECTICIDE
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An emulsifiable concentrate insecticide with short residual action, for the control of pests as indicated below.	'n Emulgeerbare konsentraat insekdoder met kort nawerking, vir die beheer van plae soos aangedui.
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 <p>DANGER</p>	<p>Hazard statements Flammable liquid and vapour. Toxic if swallowed. May be fatal if swallowed and enters airways (aspiration hazard). Fatal in contact with skin. Causes skin irritation. May cause allergic skin reaction. Causes serious eye damage. Fatal if inhaled. Suspected of causing cancer. Very toxic to aquatic life.</p> <p>Precautionary statements Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Wear protective gloves, eye, and face protection.</p>
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

dichlorvos (organophosphate) 1000 g/L dichlorvos (organofosfaat)

NET VOLUME/NETTO VOLUME

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REGISTRATION HOLDER/REGISTRASIEHOUER

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UN no.: 3017

EMERGENCY NUMBERS:

Griffon Poison Information Centre: +27 82 446 8946
 Tygerberg Poison Information Centre: +27 861 555 777

Batch number
 Date of Manufacture
 Expiry date

Lotnommer
 Datum van Vervaardiging
 Vervaldatum

WARNINGS

- Flammable liquid and vapour.
- Toxic if swallowed.
- May be fatal if swallowed and enters airways (aspiration hazard).
- Fatal in contact with skin.
- Causes skin irritation.
- May cause allergic skin reaction.
- Causes serious eye damage.
- Fatal if inhaled.
- Suspected of causing cancer.
- Very toxic to aquatic life.

Withholding periods (Minimum number of days between last application and harvest.):

Beans	3 days
Cabbage	2 days
Cherries (applied at 50 ml/100 L water for slug control)	2 days
Citrus	7 days
Grapes (applied at 75 ml/100 L water for mealy bug control)	7 days
Grapes (applied at 100 ml/100 L water for fruit fly control)	7 days
Persimmons	28 days
Pome fruit (apples, pears)	7 days
Stone fruit (Apricots, cherries, nectarines and peaches, plums)	7 days
Guavas	7 days
Tomatoes	2 days

Export crops: The local maximum residue levels (MRLs) will not be exceeded if **DEVIPAN™ 100** is used according to the label instructions. However, ADAMA South Africa (Pty) Ltd cannot be held responsible if export MRLs are exceeded. The local export marketing bodies must be consulted regarding application timing, withholding periods and specific tolerances of countries to which produce will be exported.

- Handle with extreme care.
- Toxic to bees and wildlife.
- Store under lock and key away from food and feed.
- Store in a cool, dry, well-ventilated place in the original container, tightly closed and secured.



- If exposed or concerned, get medical advice immediately. Call a doctor or poison centre and make this label available to them. Specific treatment is urgent, see measures on this label.
- Re-entry: Do not enter treated area within 2 days after treatment unless wearing protective clothing.

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 pest against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, and the environment or harm to humans or animals 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 the event of any uncertainty.

PRECAUTIONS

- Obtain, read and follow all safety instructions before use.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. no smoking.
- Ground or bond container and receiving equipment and take action to prevent static discharge.
- Use explosion-proof electrical, ventilation, lighting and other equipment and non-sparking tools.
- Take action to prevent static discharge.
- Avoid breathing fumes/mist/vapours/spray.
- Do not get in eye, 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 or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective gloves, protective clothing, eye, and face protection.
- In case of inadequate ventilation, wear respiratory protection.
- In case of fire, use the available equipment to extinguish the fire.
- IF SWALLOWED: Get emergency medical help immediately. Rinse mouth. Do NOT induce vomiting. Specific treatment is urgent – see information on the label and Section 4 of this SDS.
- IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse affected areas under the safety shower. Get emergency medical help immediately. Specific treatment is urgent – see information on the label and Section 4 of this SDS

- If skin irritation or rash occurs: Get medical help.
- Take off contaminated clothing immediately and wash it before re-use.
- IF IN EYES: Rinse cautiously with water for several minutes. remove contact lenses, if present and easy to do. Continue rinsing. Get emergency medical help immediately.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately. Specific treatment is urgent – see information on the label and Section 4 of this SDS.
- Store locked up, in a well-ventilated place. Keep cool and keep container tightly closed.
- Dispose of contents/container to a licensed waste facility and in accordance with local and national regulatory requirements.

- Prevent spray drift onto other crops, grazing, rivers and dams and areas not under treatment.
- Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container *three times in succession* with a volume of water equal to a minimum of 10 % of that of the container 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.
- Clean applicator before using with other remedies and dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- Prevent contamination of food, feed, drinking water and eating utensils.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Dichlorvos	>60%	62-73-7
Calcium docecylbenzenesulphonate	<10%	26264-06-2
Xylene	<10%	1330-20-7
Light Aromatic Petroleum Solvent	<10%	64742-95-6
2-Methylpropan-1-ol	<10%	78-83-1

FIRST AID

Immediate medical attention is required. Acute exposure to DEVIPAN may require decontamination and life support for the victims. Provide this label and SDS to medical personnel for treatment. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination.



Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and covered up.

Take the container label or product name with you when seeking medical attention.

Eye contact: Immediately rinse/flush the eyes gently with water from the eye wash fountain for several minutes (at least 15 minutes), while holding the eyelids apart. Check for and remove contact lenses if easy to do so. Continue rinsing. Obtain immediate medical attention.

Skin contact: Remove all contaminated clothing and shoes. Rinse the skin immediately with plenty of water for 15 to 20 minutes under the safety shower. Immediately contact a poison control centre or medical practitioner for advice. Wash contaminated clothing before re-use.

Inhalation: Immediately remove the affected victim from exposure to an area with fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the product; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediately obtain medical attention.

Ingestion: Obtain immediate medical attention - call a poison control centre or medical practitioner immediately for treatment advice. If conscious, rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsing person. Do NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits.

TOXICOLOGICAL INFORMATION

Note to physician

Administer atropine sulphate intravenously (1-4mg) every 5-10 minutes until signs of atropinisation (dry flushed skin and tachycardia) occur. Alternatively administer obidoxime chloride or Pralidoxime (PAM) at 50 mg/kg up to a total dose of 1-2 g or administer Protopam at 2 /3 of the dose of PAM. Repeat oximes if necessary. Do not give morphine.

Most important symptoms/effects, acute and delayed

Acute illness from dichlorvos is limited to the effects of cholinesterase inhibition. Symptoms may occur during use or be delayed - even up to 8 hours after use.

Dichlorvos inhalation symptoms: Pupillary constriction, muscle cramp, excessive salivation, muscle twitching, convulsions, dizziness, sweating, wheezing, laboured breathing, and unconsciousness.

Dichlorvos eye exposure symptoms: Redness, pain, pupillary constriction, and blurred vision.

Dichlorvos ingestion symptoms: Excessive salivation. Nausea, vomiting, abdominal cramp, and diarrhoea.

Very high doses may result in unconsciousness, incontinence, and convulsions or fatality.

Accumulation of the product in the human body may occur and may cause some concern following repeated or long-term occupational exposure.

NOTICE TO THE USER: This agricultural remedy is to be used only according to the directions of this label. It is an offense under the Act to use this product inconsistent with the directions on the label.

RESISTANCE WARNING

For resistance management **DEVIPAN™ 100** is classified as a group code 1B insecticide. Any insect population may contain individuals naturally resistant to **DEVIPAN™ 100** 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 **DEVIPAN™ 100** and other group code 1B insecticides.

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 the control methods (chemical, cultural, biological) into pest control programmes.
- For specific information on resistance management contact the registration holder of this product.

MODE OF ACTION

1B: ACETYLCHOLINESTERASE (AChE) INHIBITORS: Inhibit AChE, causing hyperexcitation. AChE is the enzyme that terminates the action of the excitatory neurotransmitter acetylcholine at nerve synapses.

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.

APPLICATION

DEVIPAN™ 100 can be applied by means of any suitable medium or high volume spray apparatus that is calibrated correctly, is fitted with an efficient agitating system and is able to distribute the spray mixture evenly over the target area.

Note: The pH of the spray mixture should be maintained above 6.



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APPLICATION TABLE

CROP AND TARGET	DOSAGE/100 L WATER	REMARKS
Beans Plusia-loopers	100 ml	Apply as a full cover spray when pest is noticed. Repeat as necessary.
Cabbages Aphids, Caterpillars of the diamond back moth, Greater cabbage moths	100 ml	Apply as a full cover spray when pest is noticed. Repeat weekly or as necessary. Give special attention to the underside of leaves.
Citrus Mediterranean fruit fly (<i>Ceratitis capitata</i>) Natal fruit fly (<i>Ceratitis rosa</i>)	100 ml	Apply as a medium cover spray when pest is noticed. Repeat as necessary.
Cut flowers Various flower pests (disinsectation)	1 ml/m ³	For mass treatment of cut flowers. Apply as a fine mist avoiding direct application to flowers. Cover immediately with an airtight tarpaulin and leave for several hours to obtain full benefit of fumigant action. May be phytotoxic to certain flowers.
Flowers and Ornamentals Mealy bugs, Australian bugs Plusia-loopers	100 ml 100 ml	Apply as a full cover spray when the pest is noticed. Ant control will materially assist in the control of mealy bug and Australian bug. Apply as a full cover spray. Repeat as necessary.
Grapes Mealy bug	75 ml (3.0–4.5 L/ha)	Apply in 4000–6000 L of spray solution/ha during spring and summer and in 250 - 500 L/ha in winter. Unless otherwise indicated, start spraying when pest is observed, 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 grapes 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 with the second spray 3 to 4 weeks after the first.



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CROP AND TARGET	DOSAGE/100 L WATER	REMARKS
Mediterranean fruit fly (<i>Ceratitis capitata</i>) Natal fruit fly (<i>Ceratitis rosa</i>)	100 ml	Apply as a full cover spray when pest is noticed. Repeat as necessary.
Guavas Mediterranean fruit fly (<i>Ceratitis capitata</i>) Natal fruit fly (<i>Ceratitis rosa</i>)	100 ml	Apply as a full cover spray when pest is noticed. Repeat as necessary.
Persimmons Mealy bug	75 ml	Only to be used under the recommendation of the Persimmon Growers Association of South Africa. Apply as a high volume full cover spray as soon as the pest is noticed. Ensure thorough coverage of all the plant parts. Use as a supplementary spray to the standard programme. A second application may be done 3–4 weeks after the first application. Do not apply within 28 days before harvest. Do not apply more than 4 applications per season.
Pome fruit Apples, pears Mediterranean fruit fly (<i>Ceratitis capitata</i>) Natal fruit fly (<i>Ceratitis rosa</i>)	100 ml	Apply as a full cover spray when pest is noticed. Repeat as necessary.
Proteas Blotch leaf miners Canal leaf miners	100 ml	Apply as a full cover spray when pest is noticed.
Stone fruit Apricots, cherries, nectarines and peaches, plums Mediterranean fruit fly (<i>Ceratitis capitata</i>) Natal fruit fly (<i>Ceratitis rosa</i>)	100 ml	Apply as a full cover spray when pest is noticed. Repeat as necessary.



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CROP AND TARGET	DOSAGE/100 L WATER	REMARKS
Cherries Slugs	50 ml	Full cover application when pest is noticed.
Tomatoes Plusia-loopers	100 ml	Apply as a full cover spray when pest is noticed. Repeat as necessary.