

INSECTIDO™ 5 EC

INSECTICIDE

An emulsifiable concentrate insecticide with contact and stomach action for the control of pests on the crops as listed.

INSECTIDO™ 5 EC = Lambda-cyhalothrin

Active ingredient : Lambda-cyhalothrin (pyrethroid) 50 g/l

REGISTRATION NO. L 8437 Act No. 36 of 1947,
IRAC Insecticide Group 3 IRAC Insektdroogske

Registration holder:

DVA CHEMICALS SOUTH AFRICA (Pty) Ltd.
Co. Reg. No./Myp. Reg. Nr.: 2006/00931/07
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WARNINGS:
WITHHOLDING PERIOD: ALLOW THE FOLLOWING MINIMUM NUMBER OF DAYS BETWEEN THE LAST APPLICATION AND THE HARVESTING OR GRAZING OF THE CROP.

Maize & Sweetcorn (Grazing) 28 days

Sorghum 28 days

- Handle concentrate with care
- Poisonous if swallowed, inhaled or absorbed through the skin.
- May cause skin and eye irritation.
- Toxic to fish and wildlife.
- Toxic to bees exposed to direct spray contact.
- Store under lock and key in a cool place away from food or feedstuff.
- FLAMMABLE: do not store or handle near an open flame.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: do not enter the treated area without wearing protective clothing within one day of application.
- In the case of poisoning CALL A DOCTOR AND MAKE THIS LABEL AVAILABLE TO HIM/HER
- Aerial application: notify all inhabitants in the immediate area to be sprayed and issue the necessary warnings.
- Do not spray over or allow spray drift to contaminate dams or streams or the 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. The action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions; quality of water used for dilution, compatibility with other substances, not indicated on this label; the occurrence of pest resistance to the remedy, as well as 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 man or animal or the lack of performance of the remedy due to the failure of the user to follow 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:

- Do not inhale the spray mist.
- Avoid contact with the eyes, skin or clothing.
- Wear protective clothing: overalls, rubber gloves, boots, face shield/ face mask when mixing, filling and spraying.
- Wash with soap and water after handling or accidental skin contact.
- Do not eat, drink or smoke while mixing, applying, or before washing hands and face.
- Change clothing after application and wash hands and face.
- Wash contaminated clothing daily.
- Do not contaminate drinking water, eating utensils, food and feedstuffs.
- Prevent spray drift onto other crops, grazing, rivers, dams or other areas not under treatment.
- Do not spray during periods of high bee activity.
- Clean equipment thoroughly after use and do not contaminate crops, grazing, rivers or dams with the wash water.
- Triple rinse empty container in the following manner: 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 empty container three times with a volume of water equal to a minimum of at least 10% of the container. Add the rinsings to the spray tank before discarding of the container.
- Dispose of empty container by perforating and flattening and dispose of in a responsible manner.
- Do not use the empty container for any other purpose.

SYMPOTMS OF HUMAN POISONING

Nausea, vomiting and abdominal pain

FIRST AID TREATMENT

Remove patient from source of poisoning (to well ventilated area) and keep him/her quiet and reassured. Remove contaminated clothing and rinse the contaminated body area thoroughly with plenty of soap and cold water. Do not rub skin. Flush contamination out of eyes with clean water for at least 15 minutes. Do not induce vomiting. Take patient immediately to the nearest physician and make this label available to him.

NOTE TO PHYSICIAN

If swallowed, flush stomach adding activated charcoal. Risk of pulmonary irritation and pulmonary oedema.

RESISTANCE WARNING

For resistance management INSECTIDO™ 5 EC is a group code 3 insecticide. Any insect population may contain individuals naturally resistant to INSECTIDO™ 5 EC and other group code 3 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by INSECTIDO™ 5 EC or any other group code 3 insecticides.

To delay resistance:

- Avoid excessive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with products from a different insecticide group code.
- Integrate control methods (chemical, cultural and biological) into insect control programs.
- Resistance of American bollworm (*Helicoverpa armigera*) to synthetic pyrethroids has been confirmed.
- Do not apply more than two applications per growing season.
- If a pyrethroid gives poor performance do not spray with any pyrethroid, even at the corrective dose rate.
- Use a product from a different chemical group.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED.

COMPATIBILITY

Do not use in tank mixtures with seaweed extract products.

MIXING INSTRUCTIONS

Half fill the spray tank with clean water of good quality, measure out the required amount of INSECTIDO™ 5 EC and pre mix this with 10 litres of water. Add this mixture to the spray tank whilst maintaining agitation and fill the spray tank with water, to the desired level. Maintain agitation throughout the spraying operation. Always use the spray mix immediately after it has been prepared and do not allow it to stand overnight or during the heat of the day.

GROUND APPLICATION

Calibrate the spray equipment before application and ensure correct application. Adequate coverage of the spray target is essential.

Hollow cone nozzles must be used to deliver medium to fine spray droplets with conventional high volume applications.

AERIAL APPLICATION

See recommendations for aerial application at the end of the label.

CROP	PEST	DOSE RATE INSECTIDO 5 EC	REMARKS
All crops	Cutworm (<i>Agrotis spp.</i>)		Apply INSECTIDO™ 5 EC as preventative (pre-emerge) or corrective (post emerge) spray as follows: Soil to be treated must be moist, well prepared, free of clods and excessive plant debris. In situations where reduced tillage is practiced populations are usually high. Monitor the situation after the first application as a second application may well be required. Apply as an overall corrective spray. Apply only when plants are in the early seedling stage or just before crop emerge. GROUND APPLICATION: Overall application. Apply in at least 300 liters water per hectare..
		70 ml/ha	
		0.23 ml/ 100 m row	
		70 ml/ha	
			BAND APPLICATION: Apply in a 30 cm band over the row in at least 3 liters water per 100 m.
			AERIAL APPLICATION: Apply in at least 30 liters water per hectare
Maize	American bollworm (<i>Helicoverpa armigera</i>)	100 ml/ha	GROUND APPLICATION: Apply in 250 to 500 liters water per hectare depending on plant size. Scout fields every 7 days from flowering. Commence spraying as soon as an infestation occurs. Larvae should be smaller than 1cm, but definitely before they reach 2 cm in length. A follow up application may be necessary; scout field at 7 day intervals and/or 3 days after rain.
			AERIAL APPLICATION: Apply directly into the funnel of the plant when 10 % of the plants show damage and before larvae enter stalk. If necessary apply a follow up spray shortly before tasselling.
			Apply at least 300 liters water per hectare. (3.0 liters water per 100 m row.)
			AERIAL APPLICATION: in at least 30 liters of water.
	Maize stalkborer <i>Chilo partellus</i> (first & second generation)	1.2 ml / 100 m row (120 ml/ha)	GROUND APPLICATION: Apply directly into the funnel of the plant when 10 % of the plants show damage and before larvae enter stalk. If necessary apply a follow up spray shortly before tasselling.
			Apply at least 300 liters water per hectare. (3.0 liters water per 100 m row.)
			AERIAL APPLICATION: in at least 30 liters of water.
	Maize stalkborer <i>Busseola fusca</i>	1.2 ml / 100 m row (120 ml/ha)	GROUND APPLICATION: Apply directly into the funnel of the plant as soon as eggs are found on 5 % of the plants or 10 % of the plants show damage. If necessary apply a follow up spray 10 to 14 days later.
			Apply at least 300 liters water per hectare. (3.0 liters water per 100 m row.)
		120 ml/ha	AERIAL APPLICATION: in at least 30 liters of water.
Sweetcorn	American bollworm, <i>Helicoverpa armigera</i>	100 ml/ha	GROUND APPLICATION: Apply in 250 to 500 liters water per hectare depending on plant size. Commence spraying as soon as an infestation occurs. Larvae should be smaller than 1cm. A follow up application may be necessary; scout field at 7 day intervals and/or 3 days after rain.
			AERIAL APPLICATION: Apply directly into the funnel of the plant 14 days after emergence, in at least 300 liters water per hectare. (3.0 liters water per 100 m row.)
			A follow up application 10 to 14 days later must be applied and repeated up to flowering to control re-infestation. Use alternate chemicals for third spray onwards.
	Pink stalkborer <i>Sesamia calamistis</i>	1.0 ml / 100 m row (100 ml/ha)	GROUND APPLICATION: Apply directly into the funnel of the plant 14 days after emergence, in at least 300 liters water per hectare. (3.0 liters water per 100 m row.)
			A follow up application 10 to 14 days later must be applied and repeated up to flowering to control re-infestation. Use alternate chemicals for third spray onwards.
	Sorghum	American bollworm, <i>Helicoverpa armigera</i>	Spray as soon as infestation is noticed and repeat as necessary.
		100 ml/ha	GROUND APPLICATION: Apply in 300 to 500 liters water per hectare. (3.0 to 5.0 liters water per 100 m row.)
		100 ml/ha	AERIAL APPLICATION: Apply in 30 liters water per hectare.
			GROUND APPLICATION: Apply directly into the funnel of the plant when 5 % of the plants show shothole damage and before borers have migrated into the stalks. Apply in at least 300 liters water per hectare. (3.0 liters water per 100 m row.) will also control Chilo partellus if present at the time of application.
		100 ml/ha	AERIAL APPLICATION: Apply in at least 30 liters water per hectare.

AERIAL APPLICATION

Aerial application of INSECTIDO™ 5 EC may only be done by a registered Aerial Application Operator using a correctly calibrated registered aircraft according to the instructions of SANS 10118 (aerial application of agricultural pesticides). Ensure that the spray mixture is distributed evenly over the target area and that 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 liters per ha is recommended. As this product has not been evaluated at reduced volume rates, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower 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 microns is recommended limit the production of fine droplets, less than 150 microns (high drift and evaporation potential), to a minimum.

Flying height

maximise the height of the spray boom at 3 to 4 meters 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.

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 exceeds 15 km/h

Stop spraying under turbulent, unstable, 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:

- reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage)

- damage to other sensitive crops and/or non-target areas through drifting of suspended spray cloud way from the target field.

Ensure aerial spray operator knows exactly which fields to spray.

Obtain assurance from the aerial spray operator that the above mentioned requirements will be met and that the relevant data will be compiled in a logbook kept for future reference.

Insectido™ is the trade mark of DVA Germany

INSECTIDO™ 5 EC

INSECTICIDE

'n Emulgeerbare konsentraat insekddoder met kontak en maag aktie vir die beheer van verskillende plaag insekte op die gewasse soos aangedui.

INSECTIDO™ 5 EC = lamda-sihalotrien

Aktiewe bestanddeel: lamda-sihalotrien (pietrojied) 50 g/l

REGISTRASIE NO. L 8437 Wet No. 36 van 1947

IRAC Insekddodergroepskode

GEREGISTREER EN VERSPREI DEUR:

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WAARSKWINGS

Onthoudingsperiodes: (laat die volgende minimum aantal dae tussen laaste toediening en oes of beweiding):

Mielies en Suikeremies (Beweiding) 28 dae Sorghum 28 dae

• Hanteer konsentraat versigtig.

• Giffig wanneer ingesuk, ingesasm of deur die vel geabsorbeer word.

• Kan vel opgrifte en veroorsaak.

• Bére agter slot en grensel op 'n koel plek weg van voedsel en voer.

• Giffig vir vissie en natuurlewe.

• Giffig vir byne indien direk blootgestel word aan sputnewel.

• VLAMBAAR: moet nie naby oop vlam bêre van hanteer nie.

• Hou buite bereik van kinders, ongenige persone en diere.

• Herbedring: Moet nie behandelde area bêre sonder beskermerende klere binne 1 dag na toediening nie.

• In gevval van vergiftiging ontdek 'n dokter en maak hierdie etiket beskikbaar aan hom.

LUGTOEDIENING:

• Stel alle inwoners in die onmiddellike omgewing van die gebied wat bespuit gaan word in kennis en reik.

• Stel alle inwoners in die onmiddellike omgewing van die gebied wat bespuit gaan word in kennis en reik.

• Moet nie direk oor water spuit of toelaat dat sputnewel oor omliggende gebiede of water waai nie.