

Bayer Environmental Science



Before using this product read the label carefully. / Lees die etiket noukeurig alvorens die produk gebruik word.

## DECIS<sup>®</sup> UL 12

Reg. No. L5189 Act No. 36 of 1947

Reg. Nr. L5189 Wet Nr. 36 van 1947

A ULV formulation for Aerial application: Contact and stomach insecticide for the control of the Brown Locust.

'n ULV formulاسie vir Lugtoediening: Kontak en maag insekdoder vir die beheer van die Bruinsprinkaan.

### ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Deltamethrin (pyrethroid)

12 g/l

Deltametrien (piretroïed)

NET CONTENTS: / NETTO INHOUD: 200 l

### REGISTRATION HOLDER / REGISTRASIEHOUER:

Bayer (Pty.) Ltd. / (Edms.) Bpk.  
Reg. No. / Nr. 1968/011192/07  
P.O. Box / Posbus 143  
ISANDO 1600  
SOUTH AFRICA / SUID-AFRIKA  
TEL: (011) 921 5911

Batch no./Lotnommer:

Date manufactured/Datum vervaardig:

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UN No./VN Nr. 3082



**HARMFUL  
SKADELIK**



## **WARNINGS**

**A WITHHOLDING PERIOD OF 21 DAYS IS REQUIRED BETWEEN LAST TREATMENT AND HARVEST OR USE AS FOOD OR FEED.**

May cause irritation of the skin, eyes, mucous membranes and skin sensitization.

Handle with extreme care.

Poisonous by swallowing, inhalation or contact.

TOXIC TO FISH.

Keep out of reach of children, uninformed persons and animals.

Store under lock and key in a cool place away from food and feedstuffs.

Use of this material in a manner or at a time other than in accordance with directions may cause plant injury, excessive residues or other undesirable results.

In case of poisoning call a doctor and make this label available to him.

**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 OF THE ACTION AND EFFECT THEREOF MAY BE EFFECTED BY FACTORS SUCH AS ABNORMAL CLIMATIC AND STORAGE CONDITIONS; THE OCCURRENCE OF RESISTANCE OF THE INSECT 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, 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 OCCURENCE OF CONDITIONS WHICH COULD NOT HAVE BEEN FORESEEN IN TERMS OF THE REGISTRATION. CONSULT THE DIRECTORATE HOLDER IMMEDIATELY IN THE EVENT OF ANY UNCERTAINTY.**

## **AERIAL APPLICATION:**

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

## **PRECAUTIONS**

Do not inhale fumes or spray mist.

All persons in direct contact with the insecticide to wear protective clothing - overalls, gloves, eye protection and a suitable respirator.

Pilot should wear suitable clothing and face mask and should on no account handle toxic material.

Wash contaminated clothing immediately after the days work.

Wash immediately after accidental skin contact with soap and cold water.

Do not eat, drink or smoke during mixing or application or before washing hands and face (change of clothing).

Prevent contamination of food, feed, drinking water and eating utensils.

**PREVENT DRIFT OF SPRAY ONTO RIVERS, DAMS AND AREAS NOT UNDER TREATMENT.**

Carefully drain aircraft plumbing after use.

Clean applicators thoroughly before re-using with other material.

Dispose of wash water where it will not contaminate crops, grazing, food or water.

Destroy empty container by perforation and flattening and never use for any other purpose.

Keep animals and children away from stacked chemicals and spilt material.

No worker should be engaged in mixing operations while suffering from any major complaint or from certain minor complaints such as bronchitis or stomach trouble.

## **SYMPTOMS OF POISONING**

Excitement, gastrointestinal discomfort, tremor, dizziness, headache, listlessness, nausea and vomiting, epigastric pain, muscular fasciculation of limbs, unconsciousness, convulsions and coma (very high doses).

## **FIRST AID AND TREATMENT**

Remove patient from source of poisoning to a well-ventilated area and keep him quiet and reassured. Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and water. After eye contact, flush contamination out of eyes with clean water and call a doctor. If swallowed do not induce vomiting. Wash out mouth with water and call a doctor immediately.

## **NOTE TO PHYSICIAN**

Treat symptomatically. Check blood pressure and pulse rate frequently (bradycardia and hypotonia possible). Provide supportive measures for respiratory and cardiac action. Give artificial respiration if signs of paralysis appear. Additional measures involve the elimination of the substance from the body or acceleration of its excretion (gastrolavage).

**DIRECTIONS FOR USE:** USE ONLY AS DIRECTED.

<b><u>PEST</u></b>	<b><u>DOSAGE/HA</u></b>	<b><u>REMARKS</u></b>
BROWN LOCUST (gregaria phase)	Aerial application: Area rate: 12 - 18 g *ai/ha Volume rate: 1 - 1.5 l/ha	Control to be applied against hopper bands and adult swarms. The following doses should be used on the different stages of locust development: 1st - 3rd instar .....12 g ai/ha 4th - 5th instar .....18 g ai/ha Mature Adults .....12 g ai/ha Gregarious hopper bands as well as adult swarms can be best treated while roosting during early mornings and evenings. SEE DESCRIPTION OF DEVELOPMENT STAGES.

\* ai = active ingredient

## **DESCRIPTION OF GREGARIA PHASE BROWN LOCUST DEVELOPMENT STAGES:**

1st - 3rd instar -  $\pm$  0,5 - 1 cm long - 1st instar black and then thereafter black and mustard/brown colour.

4th - 5th instar -  $\pm$  1,25 - 2,5 cm long - black and bright orange colour ("red coats").

Sexually mature adults -  $\pm$  4 - 6 cm long - adult (flying stage) - hind wings tinged with blue.

Primary breeding area Karoo region.

**IF UNSURE OF IDENTIFICATION REFER TO LOCUST RESEARCH UNIT, AGRICULTURAL RESEARCH COUNCIL – Plant Protection Research Institute.**

## **DETAILS OF AERIAL APPLICATION METHOD:**

**Equipment:** Micronair<sup>®</sup> spinning cage atomisers the principal type used on aircraft, and are approved for application. Use of flow meter and rev. counters are recommended for precise application.

**Droplet size:** Adjust pitch of atomiser blades to produce  $\pm$  6 - 7000 rpm which will give droplets in the 70 - 100  $\mu$ m VMD range (use Micronair handbook).

## **METEOROLOGICAL FACTORS RELATING TO AIRCRAFT APPLICATION:**

### **Fixed wing aircraft:**

Cross Wind Component

Droplet Release Height

Usable Swath

2.2 m/sec	5 - 6 m	30 m
2.2 - 3.6 m/sec	4 - 5 m	40 m
3.6 - 4.5 m/sec	3 m	50 m
above 4.5 m/sec	not recommended	-

For small areas decrease flight altitude to  $\pm 3$  m to reduce drift.

### **Helicopters:**

The airflow patterns of rotorcraft in forward flight differs little from those of fixed wing aircraft and as the spray droplets are fed directly into the trailing vortex spray deposition patterns approximate one another.

### **TURBULENCE, TEMPERATURE AND HUMIDITY:**

As ULV droplets are oil based and have low volatility they are not affected by changes in Relative Humidity. Under hot dry conditions where the temperature exceeds 25 °C, greater turbulence can be expected which adversely effects droplet deposition in the target areas. It is therefore advisable to spray during the cooler part of the day.

For any product enquiry, contact Bayer Environmental Science - 011 921 5911. For poisoning emergencies only, Griffon Poison Information Centre may also be contacted - 082 446 8946.

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