

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS. SHAKE THE BOTTLE WELL BEFORE USE

Insecticide

JUDO^X 148 SC



Reg. No. L 10779 Act No. 36 of 1947

4: 24/01/2023 – May2023

A suspension concentrate stomach and contact insecticide for the control of various insect pests as listed.

ACTIVE INGREDIENTS

indoxacarb (oxadiazine) 127.5 g/l
lambda-cyhalothrin (pyrethroid) 20 g/l

GROUP 3;22 INSECTICIDE



WARNING

Hazard Statements:

Harmful if swallowed.
May cause an allergic skin reaction.
Harmful if inhaled.
Causes damage to organs (blood, nervous system, heart) affected through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.

Precautionary Statements:

IF SWALLOWED: Rinse mouth: Get medical help.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.



villa



UN Number: 3082

Registration holder: VILLA CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1992/002474/07

PO Box 10413, Aston Manor, 1630

Tel. (011) 396 2233

Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946

24 HR Transport / Spill Emergency no: (Hazcal24) +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:

JUDO^X 148 SC

Reg. No. L 10779 Act No. 36 of 1947
INSECTICIDE GROUP CODE: 3 / 22

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PO Box 10413,

ASTON MANOR, 1630, Tel. (011) 396 2233.

WARNINGS**Withholding periods:**

Minimum time between the last application and harvest:	
Maize and Sweetcorn (including grazing)	42 days
Soybeans (including grazing)	42 days

NOTE

ABOVE-MENTIONED WITHHOLDING PERIODS REFER TO COMPLIANCE WITH LOCAL MAXIMUM RESIDUE LIMITS (MRL'S). HOWEVER, IT IS IMPORTANT TO NOTE THAT IMPORT TOLERANCES OF OTHER COUNTRIES MIGHT POSSIBLY BE EXCEEDED. IF THE TREATED CROP WILL BE EXPORTED, FIRST CONSULT THE RELEVANT IMPORTER OR EXPORTING BODY REGARDING THE USE OF THIS PRODUCT, MRL'S AND RECOMMENDED WITHHOLDING PERIODS.

Hazard statements:

Harmful if swallowed.
May cause an allergic skin reaction.
Harmful if inhaled.
Causes damage to organs (blood, nervous system, heart) affected through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.

- Handle with care.
- Toxic to animals and bees.
- Store in a cool, dry place away from food, feeds, fertilizers and other agricultural remedies.
- Keep out of reach of children, animals and uninformed persons.
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- **In case of poisoning call a physician and make this label available to him/her.**

Aerial application:

Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings.
Do not spray over or allow drift to contaminate water or 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, because the action and effect thereof may be affected by factors such as abnormal soil, 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 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, and 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:**

Do not breathe dust, fume, gas, mist, vapours and spray.
Wash hands and face thoroughly after handling.
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 into the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF SWALLOWED: Rinse mouth: Get medical help.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.
Get medical help if you feel unwell.
If skin irritation or rash occurs: Get medical help.
Collect spillage.
Dispose of contents/container to suitable landfill in accordance with local regulations.

- This product causes damage to the nervous system, heart and blood through prolonged or repeated exposure.
- Avoid contact with eyes and prolonged or repeated skin contact.
- Remove and wash contaminated clothing after use.
- Avoid drift of spray on to other crops, grazing, rivers, dams and areas not under treatment.
- 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 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 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. 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.

Relevant hazardous components	
Indoxacarb 95%	127.5 g/ℓ
Lambda-cyhalothrin	20 g/ℓ
Rhodasurf 860/P	<60 g/ℓ
MEG	<60 g/ℓ

SYMPTOMS OF HUMAN POISONING

Lambda-cyhalothrin: No cases of poisoning have been described in the general population and none from occupational exposure. However, symptoms that may arise if the product is mishandled and overexposure occurs are nausea, vomiting, diarrhoea, abdominal pain, ataxia, unsteady gait, hyperexcitability, salivation, tremors and incontinence. Larger doses may cause convulsions and loss of consciousness.

Indoxacarb: In the case where **Indoxacarb** is ingested methemoglobinemia may occur. In contact with eye may cause irritation with tearing, pain or blurred vision. In contact with skin may cause irritation with itching, burning, redness, swelling or rash. May cause skin sensitization with allergic rashes.

FIRST AID TREATMENT

- **Skin:** Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with cold water and non-abrasive soap. Do not rub the skin. Apply olive oil to affected areas for prompt relief. Get medical attention if irritation occurs and persists.
- **Eyes:** Rinse eyes with clean water for at least 20 minutes. If irritation occurs and persists, obtain medical attention.

- **Inhalation:** If vapours or mists have been inhaled and irritation has developed, remove the source of contamination or move victim to fresh air. If breathing difficulty or irritation occurs and persists, obtain medical attention.
- **Ingestion:** Have victim rinse mouth thoroughly with water. Do not induce vomiting unless instructed to do so by a poison control center or doctor. **Obtain medical advice immediately.** Never give anything by mouth to an unconscious person. Treat respiratory difficulty with artificial respiration and oxygen. Qualified medical personnel must perform administration of oxygen.

NOTE TO PHYSICIAN

This product contains **Indoxacarb** (an oxadiazine insecticide) and **Lambda-cyhalothrin** (a synthetic pyrethroid insecticide). There is no specific antidote available for any of the active ingredients. This product contains materials that may cause severe pneumonitis if aspirated. In cases of ingestion, consider gastric lavage, however, prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Treat symptomatically and supportively.

Mode of action: **JUDOX 148 SC** is a non-systemic insecticide active by both contact and ingestion. It results to rapid knockdown with repellent and long residual activity. It prevents the channels from closing and resulting in hyperexcitation by modulating voltage-gated sodium channels.

RESISTANCE WARNING

JUDOX 148 SC is an IRAC group codes 3 & 22 insecticide. Any insect population may contain individuals naturally resistant to **JUDOX 148 SC** and other group IRAC codes 3 & 22 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **JUDOX 148 SC** or any other IRAC group codes 3 & 22 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 other control methods (chemical, cultural, biological) into insect control programmes.
- **Do not** exceed the maximum number of applications per season with **JUDOX 148 SC** (refer to instructions under “**USE RESTRICTIONS**” on this label).
- Apply two (2) treatments consecutively (so called “block application”) and then alternate **JUDOX 148 SC** with compounds from different chemical classes.
- Monitor insect populations and apply **JUDOX 148 SC** as per label instructions once locally determined economic thresholds have been reached. Multiple applications may be required to obtain effective control of an infestation.

For specific information on resistance management contact the registration holder of this product.

USE RESTRICTIONS

- **Bees:** Do not apply when bees are most active. Do not direct spray towards beehives or allow spray drift in their vicinity.
- **Maize stalk borer control:** Apply before larvae migrate to the stems of the maize or sweetcorn plants and larvae have not developed beyond second instar stage. Larvae that have already tunnelled into the funnels will **not** be controlled with **JUDOX 148 SC** spray mixtures.
- Do not apply **JUDOX 148 SC** on plants against Maize or Chilo stalk borers whilst the flag leaf encircles the tassel, as this will cover that area against the spray deposit.
- **Do not** apply **JUDOX 148 SC** on maize that is under drought stress.
- The absence of rain within three (3) days of application or irrigation after application can lead to a decrease in control with **JUDOX 148 SC** spray mixtures. Water after application is essential to wash the spray mixture in the funnel.

DIRECTIONS FOR USE: Use only as directed.

General information & selectivity:

- Follow the label recommendations specifically for application rates, spray intervals and the optimum timing to apply **JUDOX 148 SC**.

Crop & pest information:

- **Maize stalk borer, *Busseola fusca*, larvae control:**
 - Commercial maize:

Apply preventively or when eggs are found on 5 % of the plants, or when 10 % of the plants are showing shot hole damage symptoms on the maize funnels, which are caused by small feeding larvae.

- Sweetcorn:

Apply preventively, or when egg laying starts, or with the first signs of shot hole damage symptoms on the maize funnels.

- **Sorghum stem borer, *Chilo partellus*, larvae control:**

- Commercial maize:

Apply preventively, or when eggs are found on 2.5 % of the plants, or when 5 % of the plants are showing shot hole damage symptoms on the maize funnels, which are caused by small feeding larvae.

- Sweetcorn:

Apply preventively, or when egg laying starts or with the first signs of shot hole damage symptoms on the sweetcorn funnels.

Compatibility:

- The compatibility of **JUDOX 148 SC** with other products has not been determined extensively apart from those mentioned on this label.
- **JUDOX 148 SC** is compatible with organosilicon surfactants like **Charge**.
- The compatibility of **JUDOX 148 SC** with other products may be influenced by several factors. As certain factors may vary from time to time, a physical compatibility test must always be performed before such a tank mixture is sprayed.
- When **JUDOX 148 SC** is used in conjunction with any other agricultural remedy, adhere to all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on the relevant labels.

Mixing instructions:

- **Shake container** well just before mixing.
- Half fill the spray tank with water and add the required amount of **JUDOX 148 SC** to the water while agitating (refer "Adjuvants" below).
- Adjuvants: If an acidifier / buffer is used, add this first to the tank before adding the insecticide. Any wetter / spreader (surfactant) must be added last, just before final volume is reached.
- Maintain agitation during mixing and application.
- The prepared spray mixture must not be left in the spray tank for any length of time, e.g., overnight.

Application instructions:

- **JUDOX 148 SC** can be applied with most generally used, purposed designed spraying equipment used in agriculture.
- Always use suitable, correctly calibrated equipment, which is in good working order, and ensure effective coverage of the target area.
- **JUDOX 148 SC** has not been tested at reduced volume rates therefore the registration holder cannot guarantee efficacy of use under such conditions.

Aerial application:

Aerial application of **JUDOX 148 SC** 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

<i>Crop / Pest</i>	<i>Dosage rate</i>	<i>Remarks</i>
<u>Maize & Sweetcorn</u> Larvae of: Maize stalk borer (<i>Busseola fusca</i>) Sorghum stem borer (<i>Chilo partellus</i>)	<u>VERY IMPORTANT</u> Refer to “USE RESTRICTIONS”, “DIRECTIONS FOR USE” (including “Crop information”) and “APPLICATION INSTRUCTIONS”.	
	300 ml / ha (10 ml / 10 ℓ water) JUDOX 148 SC PLUS 25 ml / 100 ℓ water (2.5 ml / 10 ℓ water) Charge	Broadcast ground application: Apply as a preventive or early corrective treatment. Apply a minimum of 300 litres spray mixture per hectare. Apply over the funnel of the plants and ensure thorough coverage of the foliage. To ensure optimum results, application must take place early in the morning when dew is present. Under conditions of repeated infestation, apply JUDOX 148 SC in a 10-day spray programme. Do not exceed two (2) consecutive applications of JUDOX 148 SC per season. <u>Aerial Application:</u> Apply in 30 litres water per hectare.
	3 ml / 100 m plant row (0.3 ml / 10 m plant row) JUDOX 148 SC PLUS 25 ml / 100 ℓ water (2.5 ml / 10 ℓ water) Charge	Directed row ground application: Apply 3 litres spray mixture per 100 m plant row over the funnel of the plants and ensure thorough coverage of the foliage. To ensure optimum results, application must take place early in the morning when dew is present. Under conditions of repeated infestation, apply JUDOX 148 SC in a 10-day spray programme. Do not exceed two (2) consecutive applications of JUDOX 148 SC per season.

Crop / Pest	Dosage rate	Remarks
<u>Soybeans</u> African bollworm (<i>Helicoverpa armigera</i>)	80 to 120 ml / ha (4 ml / 10 l water) JUDOX 148 SC PLUS 20 ml / 100 l water (2.0 ml / 10 l water) Charge	Apply as an early corrective treatment when the pest is first noticed. Apply as a full cover spray in 200 to 300 litres water per hectare (use the higher dosage rate in the higher water volume). Ensure good penetration and coverage of all plant parts. Under conditions of high infestation pressure, apply JUDOX 148 SC in a 7-day spray programme. Do not exceed two (2) consecutive applications of JUDOX 148 SC per season.

Consult the **Charge** adjuvant label for **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE**.

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

- **CHARGE** (L 9100 / W 130953 / N-AR 2241) = **TECHNIWET SUPER** (L 9239).

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