



RESTRICTED USE AGRICULTURAL REMEDY
RESTRICTED USE AGRICULTURAL REMEDY THIS REMEDY IS RESTRICTED DUE TO ACUTE TOXICITY. THIS REMEDY MAY ONLY BE SOLD TO AND USED BY A REGISTERED PEST CONTROL OPERATOR, OR BY SOMEONE UNDER THE SUPERVISION OF A REGISTERED PEST CONTROL OPERATOR, AND ONLY FOR USES COVERED BY THE PEST CONTROL OPERATOR'S SCOPE OF REGISTRATION AND ONLY AS DIRECTED ON THIS LABEL.

CURADAN 100 GR

Reg. No. L11075, Act No. 36 of 1947 | Reg. Nr. L11075, Wet Nr. 36 van 1947

Read the label before use / Keep out of reach of children and animals

A systemic granule insecticide and nematicide for the control of the pests mentioned on the crops listed.

Danger

Hazard Statements

Fatal if swallowed or if inhaled.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause respiratory irritation.

Precautionary Statements

Keep out of reach of children.

Read carefully and follow all instructions.

INSECTICIDE GROUP CODE 1A

ACTIVE INGREDIENT

Carbofuran (carbamate) 100g/kg

Registration holder/Registrasiehouer:

Sharda International Africa (PTY) LTD

Reg. No./Reg. Nr. 2010/002268/07

P. O. Box/Posbus 82021, Southdale, 2135

Tel: 031-764 3011 (Office hours only)

UN No./VN Nr. 2757

National Poison help line/Emergency contact number: 086 155 5171

’n Sistemiese korrelinsekdoder en aalwurmdoder vir die bestryding van die genoemde plaë die gewasse wat gelys word.



INSEKDODER GROEP KODE 1A

AKTIEWE BESTANDDEEL

Karbofuran (karbamaat) 100g/kg

BATCH NO.
LOT NR.

EXPIRY DATE
VERVAL DATUM

Contents/Inhoud

20Kg

WARNINGS

Maize and Cabbage

Apply only at planting time.
Do not harvest cabbages within 11 weeks after application. Do not use on quick maturing cabbage cultivars. Do not allow animals to feed on treated maize plants within 8 weeks of application under normal rainfall conditions. Should drought conditions prevail after planting consult your nearest Technical Adviser, before allowing animals to graze.
In the case of maize and cabbages control of stalk borer and diamond backed moth larvae respectively can be expected to decline from 7 to 8 weeks after application.

Wheat

Apply only at planting time. Do not harvest wheat within 120 days after application. Do not allow treated wheat to be grazed within 120 days after application.

Sugarcane

Apply only at planting time or within 120 days of harvesting the previous crop of sugarcane. Make only one application per crop at time of planting and allow 180 days between treatment of sugarcane and harvest. At planting ensure that the set placement is not less than 7.5 cm beneath soil surface.

Grain Sorghum

Apply only at planting time. Do not allow animals to feed on treated sorghum plants within 10 weeks of application. Control of stalk borer can be expected to decline from 7 to 8 weeks after application.

Tobacco

Apply only at planting time and not later than one week after planting in light sandy soil. Do not harvest within 80 days of treatment.

Curadan 100 GR should not be used on tobacco transplants, which originate from seed trays.

Sunflowers

Apply only at planting time, do not harvest within 11 weeks after application.

Potatoes

Apply only at planting time, do not harvest within 90 days after application.

Note: The maximum residue levels (MRL's) will not be exceeded provided applications are applied as prescribed. When production is destined for the export market, the export agency of concern must be contacted, prior to the use of **Curadan 100 GR** in a spray programme.

- The efficacy of **Curadan 100 GR** may be adversely affected, when used in alkaline, brackish, or soils of high pH (above pH 7).
- Fatal if swallowed or if inhaled
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation
- May cause respiratory irritation.
- Handle with extreme care.
- Not to be used as a seed dressing.
- Toxic to fish, bees and wildlife.
- To prevent bird poisoning ensure, that granules are covered immediately.
- Take special precautions at the end of the planting furrow where spillage may occur.
- 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, fertilizer and other agricultural remedies.
- Ensure that no edible crop is planted on treated ground or within 10 metres of treated area within 100 days of application.
- Inform staff (labourers, wives and children) of the potential danger of product and give full instructions on what to do in case of poisoning.
- Mark treated areas with appropriate danger signs.
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- **In case of poisoning call a doctor and make this label available to him.**
- Keep out of reach of children, uninformed persons and animals.

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; 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 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

- Keep out of reach of children.
- Read carefully and follow all instructions. Keep only in original container.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- IF SWALLOWED: Get emergency medical help immediately.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- IF exposed or concerned: Get emergency medical help immediately.
- If skin irritation or rash occurs: Get medical help.
- Dispose of contents / container to an approved waste disposal plant.
- Avoid skin contact with the granules as well as inhalation of dust.
- Wash with soap and water after use and after accidental skin contact.
- Keep unprotected persons away from operating area.
- Prevent drift onto other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Clean applicator after use or before using with other remedies.
- Thoroughly clean spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- Invert the empty container over the spray or mixing tank to make sure container is empty before destroying the container.
- Dispose of wash water where it will not contaminate crops, grazing, rivers, dams, etc.
- Destroy empty container by perforation and flattening.
- Containers and packages must be completely emptied before being disposed of.
- 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, feed, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Headache, fatigue, faintness, giddiness, excessive sweating, nausea, abdominal pain, vomiting, blurred vision, muscle twitching, usually small pupils, respiratory distress, coma.

FIRST AID TREATMENT

- Remove patient from source of poisoning and keep him quiet and reassured.
- Skin contact: Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and cold water. Do not rub skin.
- Eye contact: Flush contamination out of eyes with clean water for 15 minutes.
- If swallowed induce vomiting by tickling the back part of the throat. Repeat until vomit is clear and free from smell of poison.
- Administer artificial respiration or closed cardiac massage if necessary.
- **Do not** apply direct mouth to mouth respiration.
- **Never** give anything by mouth to an unconscious person.
- **Take patient too nearest physician immediately.**

NOTE TO PHYSICIAN

Atropine sulphate 2 to 4 mg (adult) intravenously, repeated at 10 minute intervals until atropinization (dry flushed skin and tachycardia) appears. Pralidoxime (2-PAM Protopam) and other oximes are contraindicated.

Relevant Substances:

Components	%
Carbofuran	9 - 15 %

RESISTANCE WARNING

For resistance management, **Curadan 100 GR** is a group code 1A insecticide. Any insect population may contain individuals naturally resistant to **Curadan 100 GR** and other group code 1A insecticide. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **Curadan 100 GR** or any other group code 1A insecticide.

To delay insecticide resistance:

- avoid exclusive repeated use of insecticide 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 insect control programmes.

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

DIRECTIONS FOR USE: Use only as directed.

- An accurate, properly calibrated granule-appliator must be used. Downpipes from applicator into seeding furrow should be set at a sufficiently steep angle to ensure even flow of granules. Regular checks are advised to prevent blockages. Ensure an even distribution of the granules.
- As with all soil-applied insecticides, sufficient moisture is necessary for the release of the active ingredient.
- It is recommended that producers apply suitable cutworm bait as recommended for cutworm control after planting and before germination to ensure an optimal stand.

Compatibility:

CURADAN 100 GR should not be mixed and applied simultaneously with fertilizer from a single granule applicator.

Crop/Pest	Dosage rate	Remarks
Cabbage Diamond-back moth larvae (<i>Plutella maculipennis</i>)	200 g/100 m linear in furrow at planting	Apply immediately prior to transplanting. Ensure that the granule applicator is properly calibrated and that the stream of granules into the plant furrow is regular at all times and below the soil surface.
Grain Sorghum False Wireworms	100 g/100 m linear in furrow at planting	Will also suppress Nematodes.
Nematodes	150 g/100 m linear in furrow at planting.	Will also suppress stalk borer and black maize beetle.
Stalk borer (<i>Busseola fusca</i>), Astylus larvae, Black Maize Beetle (<i>Heteronychus</i> spp.) and Shoot fly (<i>Anatrichus erinaceus</i>)	200 g/100 m linear in furrow at planting.	

NOTE: See Notes under Maize.

Maize and Sweetcorn False Wireworms and Maize Rootworm (<i>Bu-phonella murina</i>)	100 g/100 m linear in furrow at planting	Will also suppress nematodes and leafhoppers.
Crop/Pest	Dosage rate	Remarks
Leafhoppers (vectors of streak disease), Nematodes and Ground weevils (<i>Protostrophus</i> spp.)	150 g/100 m linear in furrow at planting	Will also suppress Stalk borer and Black maize beetle. See Note 4. hereunder for remarks regarding leafhoppers.
Astylus larvae, Stalk borer (<i>Busseola fusca</i>) and Black Maize Beetle (<i>Heteronychus</i> spp.)	200 g/100 m linear in furrow at planting	Under known high infection pressure of <i>Astylus</i> larvae it is recommended to treat seed with appropriate seed dressing product specifically registered for this purpose. See label applicable for directions for use. See Note 3. hereunder for remarks regarding black 3maize beetle.

NOTE:

1. Ensure that the granule-appliator is regularly calibrated and that the stream of granules into the plant furrow is regular at all times.
2. The granules should be applied directly onto the seed in the furrow.
3. Application of products for the control of black maize beetle is extremely critical. **Ensure that application equipment is properly calibrated. Dosage rate must be checked several times each day.** Notwithstanding the use of this product, black maize beetle damage should still be expected. Under conditions of high population pressure up to 20 % or more of the maize crop may be damaged or destroyed, in spite of having been treated.
4. There may not be adequate control of leafhoppers (vectors of streak disease) on maize, and the incidence of streak may still occur, especially on very susceptible cultivars, particularly sweetcorn varieties, and parent breeding lines used in seed maize. This is particularly so:
A. When infestation pressure is high, as a result of:
(i) close proximity of host plants, such as wheat or sugarcane;
(ii) mid-summer planting, when naturally occurring populations of leafhoppers are very high.
B. When **Curadan 100 GR** is used in soils of high Ph (see "WARNINGS")

Potatoes Black Maize Beetle (<i>Heteronychus</i> spp.) and Millipedes	200 g/100 m linear in furrow at planting.	Limited control of Black Maize Beetle and Millipedes, with Curadan 100 GR applied at planting can be expected for a limited period. Curadan 100 GR to be applied at planting to both sides of the planting to furrows so as to ensure thorough mixing of the granules with the soil above the seed. Spray of a registered chemical is recommended for further control later in the season. Notwithstanding the use of the Curadan 100 GR damage by Black Maize Beetle should still be expected.
Sugarcane Plant cane Nematodes	30 kg/ha applied as a row treatment at planting. Apply: 3.0 g/m of row for 1 m spacing; 3.6 g/m of row for 1.2 m spacing; 4.2 g/m of row for 1.4 m spacing; 4.8 g/m of row for 1.6 m spacing.	Rate per linear metre depends on row spacing. Apply by means of a suitable calibrated granule applicator into the planting furrow prior to planting and cover the furrow immediately after planting.
Ratoon cane Nematodes	25 kg/ha applied to one or both sides of the cane furrow. Apply: 2.5 g/m of row for 1.0 m spacing; 3.0 g/m of row for 1.2 m spacing; 3.5 g/m of row for 1.4 m spacing; 4.0 g/m of row for 1.6 m spacing.	Rate per linear metre depends on row spacing. Apply with mechanical applicator to moist soils not later than 120 days after cutting the previous crop. Crops cut in summer should be treated immediately. Crops cut between May and August may be treated after the first spring rains. Apply the Curadan 100 GR in a shallow furrow (5 to 10 cm deep) close to the cane row (but avoiding excessive mechanical damage to the stools and roots) and cover immediately.
Sunflower Nematodes	100 g/100 m linear in furrow at planting	Apply at planting. Refer remarks 1 and 2 under maize.
Tobacco American bollworm (<i>Helicoverpa armigera</i>)	200 g/100 m linear in furrow at planting	Apply in the planting furrow at planting. Will control bollworm for a period of 6 to 7 weeks after planting.
Wheat Irrigated and Dryland Nematodes	30 g/100 m linear in furrow at planting	Apply under the seed in planting furrow at planting. Ensure that the granule applicator is properly calibrated and that the stream of granules into the plant furrow is regular at all times below the soil surface.
	10 kg/ha	Apply at planting or immediately thereafter with a properly calibrated "GANDY RHOBANDER" granular applicator and incorporate immediately either by sufficient irrigation or by shallow mechanical incorporation e.g. harrows.