



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 THOSE USES COVERED BY THE PEST CONTROL OPERATOR'S SCOPE OF REGISTRATION, AND ONLY AS DIRECTED ON THIS LABEL

Blockade® G

Reg. No. / Nr. L7552 Act No. / Wet Nr. 36 of / van 1947 | Namibia: N-AR 1759

READ THE LABEL BEFORE USE

KEEP OUT OF REACH OF CHILDREN AND ANIMALS

IRAC GROUP

1A

NEMATICIDE

'n Middel in korrelvorm vir beskerming van aartappels, tabak en tamaties teen knopwortelaalwurm (*Meloidogyne* spp.), asook die beskerming van piesangs en suikerriet teen aalwurms.

A granular remedy for protection of potatoes, tobacco and tomatoes against root knot nematodes (*Meloidogyne* spp.), and the protection of bananas and sugarcane against nematodes.



DANGER

Hazard Statements:

Fatal if swallowed.
Toxic if inhaled.
Suspected of causing cancer.

Precautionary Statements:

Wash hands and face thoroughly after handling.
Avoid breathing dust, fume, gas, mist, vapours, or spray.
Do not eat, drink, or smoke when using this product.

Active Ingredient / Aktiewe Bestanddeel:

Oxamyl (Carbamate) ... 100 g/kg ... Oksamil (Karbamaat)

In case of poisoning, call:

Tygerberg Poison Information Centre: +27 861 555 777 (24 hours)

Griffon Poison Information Centre: +27 82 446 8946 (24 hours)



REGISTRATION HOLDER / REGISTRASIEHOUER:

KLUB M5 (Pty.) Ltd.

Reg. No. 2006/023059/07

18 Aschenberg Street | Chamdor | Krugersdorp

+27 11 769 1300

**Content
Inhoud**

Batch No. / Lot Nr and Date of Manufacture /

Datum van Vervaardiging:

See printed information on container.

UN No. / VN Nr. 2757



WARNINGS:**Hazard Statements:**

Fatal if swallowed.
Toxic if inhaled.
Suspected of causing cancer.

THE FOLLOWING MINIMUM NUMBER OF DAYS MUST BE ALLOWED BETWEEN LAST APPLICATION AND HARVEST:

Sugarcane:	120 days
Tobacco:	42 days
Table Potatoes:	40 days
Tomatoes:	21 days

• Handle with extreme care.

- Fatal when swallowed, toxic when inhaled and harmful when in contact with skin.
- Toxic to fish, bees and wildlife.
- Store under lock and key in a cool dry place.
- Store away from food and feedstuffs.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: In case of re-entry of treated area within 30 days of application or handling treated soil within 30 days of application, protective clothing (overalls, rubber boots and gloves) should be worn.
- **In case of poisoning, get medical attention and make this label and product SDS available.**

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 pests 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 the lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions that could not have been foreseen in terms of the registration. Consult the Supplier in the event of any uncertainty.

PRECAUTIONS:**Precautionary Statements:***General:*

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.

Prevention:

Obtain, read, and follow all instructions before use.

Avoid breathing dust, fume, gas, mist, vapours, or spray.
Wash hands and face thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Use only outdoors or with adequate ventilation.
Wear protective clothing, gloves, eye, and face protection.

Response:

Get emergency medical help immediately.
IF exposed or concerned, get medical advice.
Rinse mouth.
IF SWALLOWED: Get emergency medical help immediately.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Storage:

Store locked up.
Store in a well-ventilated place. Keep container tightly closed.

Disposal:

Dispose of contents/container to a licensed waste facility and in accordance with local and national regulatory requirements.

- Do not inhale dust.
- Wash thoroughly with soap and water immediately after accidental eye or skin contact.
- Prevent dust from contaminating eyes. In case of contact rinse eyes for at least 15 minutes with clean water.
- Do not eat, drink or smoke whilst handling or applying the product or before washing hands, face and changing clothing.
- Prevent contamination of foods, feedstuffs, drinking water and eating utensils.
- Clean applicator after use, disposing of wash water where it will not contaminate crops, grazing, rivers and dams.
- **CLEAN THE EMPTY PLASTIC-LINED PAPER BAG AS FOLLOWS:** Shake all the pesticide formulation out of the bag into the spray or mixing tank. Turn the bag inside out. Hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Do not bury, burn or donate the bag to any other parties that may use it as a container for foodstuffs. These bags cannot be recycled and must be incinerated by a licensed incineration facility.
- Change and wash your work clothes after use. Wash yourself.

RELEVANT SUBSTANCES:

Ingredient	CAS Number	Concentration (%)
Oxamyl	23135-22-0	10 to 20%
Phosphoric acid - 80.0%	7664-38-2	< 5%
Magnesium Aluminium Silicate (Attapulgate)	12174-11-7	30 to 40%

SYMPTOMS OF HUMAN POISONING:

Fatal if swallowed and toxic if inhaled. Symptoms may include headache, fatigue, faintness, giddiness, breathing difficulties, excessive sweating, nausea, slow pulse, blurred vision, muscle twitching, vomiting, abdominal pain, constriction of pupils, respiratory distress and coma. May cause irritation in sensitive individuals.

FIRST AID TREATMENT:

Call a physician or poison control centre immediately if ingested.

Remove all contaminated clothing and move the affected person out of the contamination area. Keep the person warm, calm, and covered up. First aid personnel should always pay attention to their own safety. Provide this SDS to medical personnel for treatment.

Eye contact: Rinse/flush the eyes gently with water from the eye wash fountain for several minutes (at least 15 minutes), while holding the eyelids apart. If present, remove contact lenses if easy to do so. Continue rinsing without rubbing the eyes. **Obtain immediate medical attention if irritation occurs and persists.**

Inhalation: Immediately move the patient to fresh air. 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. **Obtain medical attention.**

Skin contact: Immediately remove contaminated clothing. Wash off thoroughly with plenty of water for 15 to 20 minutes under the safety shower. **Obtain medical attention if irritation occurs and persists.**

Ingestion: Do NOT induce vomiting. Rinse the mouth with water. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. **Obtain medical attention.**

NOTE TO PHYSICIAN:

Oxamyl is a cholinesterase inhibitor carbamate. Cholinesterase-inhibiting effects are short-term and reversible. Antidote: As early as possible administer (by qualified persons) atropine sulphate as an antidote to patients suffering from severe respiratory difficulties, convulsions and unconsciousness until complete atropinisation. Maintain atropinisation until patient recovers.

NOTE: The dose and frequency varies with each patient.

RESISTANCE PREVENTION AND MANAGEMENT:

BLOCKADE® G is an insecticide/nematicide GROUP CODE 1A product. Any nematode population may contain individuals naturally resistant to **BLOCKADE® G** and other GROUP CODE 1A insecticides/nematicides. The resistant individuals can eventually dominate the population if these products are used repeatedly and will then not be controlled by **BLOCKADE® G** or by any other GROUP CODE 1A product.

To delay the development of resistance:

- avoid exclusive repeated use of GROUP CODE 1A products.
- alternate with products from other GROUP CODES.
- integrate other control methods (e.g. crop rotation with non-susceptible crops, fallow lands, etc.) into nematode control programmes.

Since the occurrence of resistance is difficult to detect prior to use, it is of utmost importance that all of the above precautions are strictly adhered to. The Registration Holder or Distributor cannot be held responsible if

BLOCKADE® G fails to control resistant nematodes. For further advice on the prevention of resistance, contact your Distributor's local representative.

USE RESTRICTIONS:

- **Cultural practices:** Monoculture and/or crop rotation with nematode susceptible crops must be avoided.
- **Soil type and moisture:** Lightly sandy soils and/or dry soil during application can result in poor control.
- **Soil pH:** High soil pH (alkaline soil) will significantly reduce **BLOCKADE® G**'s efficacy. Do not use **BLOCKADE® G** on soils with a pH above 7,5 or if the pH of the irrigation water is above 7,5 without first consulting the distributor of this product or the registration holder.
- **Infected soil and/or high risk areas:** Apply a full control programme consisting of soil fumigation followed by **BLOCKADE® G** at planting, followed by one or more foliar sprays on soils with a history of high nematode infestations and/or in high risk areas such as Barkley-West, Christiana, Coetzersdam, Douglas, Hopetown, PK le Roux Dam, Prieska, Tosca, Vaalharts, and Vryburg.
- **Resistant nematodes:** Columbia root-knot nematode (*Meloidogyne chitwoodi* and *M. fallax*) are not controlled. These 2 species occur in colder areas such as Clocolan, Maclear and Ugie as well as in warmer areas such as Boston, Mooi River, Swaziland and Vaalharts. Golden cyst nematode (*Globodera pallida* and *G. rostochiensis*) is also not controlled.
- **Potatoes:** Plant only certified nematode free tubers. Use only on table potatoes: not on seed or chips potatoes. Do not store potatoes in the soil: lift as soon as possible after last foliar application and not later than 4 weeks.

RESTRICTED USE - Use only as directed.

See **BLOCKADE® G**'s (L7345) Restricted Use Directions where it is recommended as a follow-up spray application after the use of **BLOCKADE® G**.

CROP AND PEST	DOSAGE	REMARKS
POTATOES Root-knot nematodes	350 g/100 m furrow	Table Potatoes only: Soil Application: Apply only to moist soil. Apply into planting furrow before closing. Foliar Application (BLOCKADE® SL): Consult BLOCKADE® SL Label for full use instructions. Preventive spray: Start application as soon as plants appear above the soil and repeat at weekly intervals. Apply in 30 ℓ of water.
BANANAS Nematodes	20 g/mat	Apply from August to September and from January to February. Remove debris and weeds from around suckers and apply granules in a 30 to 45 cm wide band (approximately 1 m ²) around each sucker. Irrigate lightly after application.

CROP AND PEST	DOSAGE	REMARKS
SUGARCANE Nematodes	30 kg/ha for 1,2 m rows or 360 g/100 m planting furrow	Plant cane: Place granules in the furrow with the seed at planting using a mechanical granular applicator. Cover both with soil. Ratoon Cane: Band apply BLOCKADE® G on the soil surface on both sides of, or over plant rows after cutting UP TO SHOOT EMERGENCE using a mechanical granular applicator. Note: 1. BLOCKADE® G and lime should NEVER be applied together in the plant furrow. Ideally, lime should be broadcast during soil preparation. If lime is to be applied in the furrow, band apply BLOCKADE® G on the soil surface alongside or over rows SOON AFTER LEAF EMERGENCE. Thoroughly incorporate granules. 2. Apply only on soils with LESS than 6% clay.
TOBACCO Root-knot nematodes (excluding <i>Meloidogyne chitwoodi</i> and <i>M. fallax</i>)	125* g to 250 g/100 m planting furrow * This rate ONLY to be used in Lowveld	Soil application: Apply only to moist soil. Apply in the planting furrow at planting time. Apply the lower rate* if soil was properly fumigated with a registered fumigant shortly before planting. Apply the higher rate where no fumigant was applied or where the soil was fumigated post-harvest the previous season. Foliar Application (BLOCKADE® SL): Consult BLOCKADE® SL Label for full use instructions.
TOMATOES Root-knot nematodes	125 g/100 m planting furrow	Soil application: Apply only to moist soil. Apply either in the planting furrow or in a 20 cm band over the planting furrow and incorporate into the soil. Foliar Application (BLOCKADE® SL): Consult BLOCKADE® SL Label for full use instructions.
IMPORTANT: NOTES APPLICABLE TO ROOT-KNOT NEMATODE CONTROL WITH BLOCKADE® G IN TOBACCO AND TOMATOES: 1. Factors beyond Klub M5's control (e.g., ineffective and/or too shallow soil fumigation prior to planting (See Point 3), soil type (very sandy soils that leaches), high soil pH, or stress conditions (especially drought)) could negatively influence BLOCKADE® G 's efficacy. Under these conditions some root-knot nematode damage in tobacco and tomatoes is to be expected. 2. Where above mentioned conditions result in excessively high root-knot nematode levels in the soil and/or where abnormal cultivating practices are followed (e.g., the continuous planting of nematode susceptible crops on the same fields) chemical crop control measures may not contain crop losses caused by root-knot nematode damage. Under these circumstances BLOCKADE® G & BLOCKADE® SL programmes in tobacco and tomatoes may not achieve the desired level of root-knot nematode control, not even when applied in combination with other nematicides.		

3. Under above mentioned conditions soil fumigation with a registered fumigant prior to **BLOCKADE® G** application is an absolute necessity.
4. Tobacco and tomatoes are sensitive crops; varieties may vary in sensitivity towards crop protection products. Where there is no history of **BLOCKADE® G** application in a specific crop or variety, it is recommended that only a trial area of a field be treated in order to assess any negative effects on the crop or specific variety the first time **BLOCKADE® G** is applied. Under certain conditions seedlings produced in seed trays may display a certain degree of leaf scorch. This is normally of a temporary nature and this should not affect yield. **BLOCKADE® G** should be thoroughly incorporated into the soil before seedlings are planted to minimize risk of leaf scorch.

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