

KNOX WORM

Reg. No.: L7176 Act No. 36 of 1947
Namibia: N-AR 1029

An emulsifiable concentrate contact and stomach insecticide for the control of various garden insects.

IRAC INSECTICIDE GROUP CODE: 3

ACTIVE INGREDIENT:
Cypermethrin (pyrethroid).....200 g/l

REGISTRATION HOLDER:

Arysta LifeScience South Africa (PTY) LTD
Co. Reg. No.: 2009/019713/07
7 Sunbury Office Park , Off Douglas Saunders Drive
La Lucia, 4019 • Tel: (031) 514-5600

DISTRIBUTOR:

PROTEK, a division of PE-BEE Agri (PTY) LTD
Co. Reg. No.: 2005/036308/07
P.O. Box 72, Heidelberg, 1438
Tel: (011) 812 9800 or 0861 PROTEK (0861 77 68 35)
www.proteksa.co.za

EMERGENCY NO.: 082 446 8946

UN No.: 3351



WARNINGS:

Withholding periods: Minimum days between last application and harvest:

Beans	7 days
Cabbage & Brussels sprouts	4 days
Peaches	14 days
Peas	7 days
Tomatoes	4 days

- Handle concentrate with care.
- Harmful by contact, swallowing or inhalation.
- Irritating to eyes, respiratory system and skin.
- Very toxic to fish. Under field conditions, fish are not at risk from normal agriculture usage.
- Highly toxic to bees. No hazard to bees under normal application conditions.
- **FLAMMABLE** – do not touch near open flame.
- Keep under lock and key, out of reach of children, uninformed persons and animals.
- Store in a cool, dry place away from food and feedstuffs.
- In case of poisoning call a doctor and make the label available to him/her.
- **Re-entry:** Do not enter treated area within 1 day after treatment, unless wearing protective clothing.

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, incompatibility 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 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 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 fumed and/or spray mist.
- Avoid skin and eye contact.
- Wear protective clothing, suitable for face shield, rubber gloves and rubber boots when handling and mixing the product and whilst applying the spray mixture.
- Wash with soap and water after use and accidental skin contact.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face and changing clothing.
- Avoid drift of spray onto other crops, grazing, fish dams, rivers, dams and areas not under treatment.
- Clean application equipment after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
- **Triple rinse empty containers 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 container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the described manner.
- Destroy the empty container by perforation and flattening and dispose of it in a safe manner.
- Never re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING:

If product is aspirated into the lungs during ingestion or vomiting, mild to severe chemical pneumonia may be caused.

May cause burning, itching or tingling sensations of the skin and readily disappear within 24 hours of exposure. Inhalation causes nasal discharge and a scratchy throat. Symptoms of high-dose ingestion include nausea, prolonged vomiting, stomach pains and diarrhea, which progresses to convulsions, unconsciousness and coma.

FIRST AID TREATMENT:

Remove patient from source of poisoning and keep him quiet and reassured.

Eyes: Flush eyes with clean gentle flowing water for at least 20 minutes, occasionally lifting upper and lower lids, until no evidence of chemicals remains. If irritation occurs and persists, obtain medical attention.

Skin: Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and cold water, until no evidence of chemical remains. Do not rub skin. Apply olive oil to affected areas for prompt relief. Get medical attention if irritation occurs and persists.

Inhalation: Move the patient to fresh air. If breathing difficulty or irritation occurs and persists, obtain medical attention.

Ingestion: Do not induce vomiting. If the patient is alert, have the mouth thoroughly rinsed with water. Do not give anything by mouth. Get medical attention.

NOTE TO PHYSICIAN:

This product contains a pyrethroid and an aromatic solvent.

If product is aspirated into the lungs during ingestion or vomiting, mild to severe chemical pneumonia may be caused. The stomach should be emptied as soon as possible by careful gastric lavage.

Antidote is not available. Treat symptomatically and supportively. In case of ingestion, consider gastric lavage with water or 5 % sodium bicarbonate solution. Convulsions should be treated with anti-convulsants.

RESISTANCE WARNING:

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

Compatibility:

- **KNOX WORM** is compatible with a wide range of pesticides. However, since it is not possible for Arysta LifeScience SA to test all possible combinations, the onus lies with the user to carry out a compatibility test in the event of any uncertainty.
- The efficacy of **KNOX WORM** can be harmed at high pH value of the spray mixture. It is more stable at a pH of around 5. Where an acidifying agent is used to lower the pH of the water, the agent must be added to the water before the **KNOX WORM**.

Mixing instructions:

- Half fill the spray tank with clean water.
- Ensure pH of water is around 4. Add a suitable buffering agent to correct pH of water if necessary.
- Measure out the required quantity of **KNOX WORM** and premix this with at least 10 litre of already pH corrected water (pH 4). If any other product is to be added to the tank mixture, the required volume of that product must be premixed in similar fashion.
- Agitate the water in the spray tank and add the premixed product(s) to the tank.
- Fill the spray tank with water to the required volume, while maintaining agitation to ensure thorough mixing.
- Maintain agitation during spraying.
- Use the prepared mixture immediately.
- Do not allow to stand overnight.

Application:

Ensure that sprayers are calibrated before spraying and that thorough coverage is obtained.

A uniform distribution must be ensured.

APPLICATION DOSATE RATES:

CROP/PEST	DOSAGE RATE	REMARKS
BEANS: Africa bollworm	1 ml / 10 l water	Apply as soon as eggs or larvae are noticed. Inspect plants regularly and if necessary repeat application.
CABBAGE & BRUSSELS SPROUTS: Africa bollworm, Diamond back moth larvae & Thrips	1 ml / 10 l water	Ensure good wetting of the plant. At first signs of pest commence spraying. Repeat 10 to 14 days later. When the caterpillars are already in the cabbage head, or in the clusters of the leaves of the Brussels sprouts, variable control can be expected.
LAWNS: Army worm	5 ml / 10 l water	Apply as a full cover spray to lawns when caterpillars are noticed.
ORNAMENTALS: Africa bollworm & Aphids	1 ml / 10 l water	Apply as a full cover spray.
SEEDLING TRANSPLANTS: Cutworms	4 ml / 10 l water	Apply treatment either pre- or post-emergence when pest is noticed. Ensure that top 3 cm of the soil is moist. Repeat treatment in cases of re-infestation. Apply directly to the soil at a rate of 1 litre mixture to 20 m ² .
PEAS: Africa bollworm & Lesser army worm	1 ml / 10 l water	Apply as a full cover spray. If necessary repeat at 15 day intervals.
PEACHES: Africa bollworm, Codling moth larvae, False Codling moth larvae & fruit Flies	1 ml / 10 l water	Apply as full cover spray at 75 % petal drop. Ensure good coverage. Repeat at 14 to 21 day intervals.
TOMATOES: Africa bollworm	1 ml / 10 l water	At first signs of infestation, apply as full cover spray. Repeat at 7 to 10 day intervals or as necessary.

