

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



Insecticide

EDB MO

Reg. No. L 4431 Act No. 36 of 1947

4: 6/7/2022 - Dec2023

A soil fumigant for the control of nematodes while the field is free of crops.

ACTIVE INGREDIENT

EDB

1800 g/l

GROUP

8

INSECTICIDE



Hazard Statements:

Toxic if swallowed, inhaled or in contact with skin.
Causes skin irritation and serious eye irritation.
May cause respiratory irritation.
May cause genetic defects.
May cause cancer.
Suspected of damaging fertility or the unborn child.
Harmful to aquatic life.

Causes damage to the central nervous system through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Obtain, read and follow all safety instructions before use.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.

DANGER



UN Number: 2902

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.
Co. Reg. No. 1983/008184/07
PO Box 801, Kempton Park, 1620
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: (Hazcall24) +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:

EDB MO

Reg. No. L 4431 Act No. 36 of 1947
 IRAC INSECTICIDE GROUP CODE: 8

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UNIVERSAL CROP PROTECTION (PTY) LTD.

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P.O. Box 801

KEMPTON PARK, 1620 Tel. (011) 396 2233

WARNINGS**Hazard statements:**

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Causes skin irritation and serious eye irritation.
May cause respiratory irritation.
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May cause cancer.
Suspected of damaging fertility or the unborn child.
Causes damage to the central nervous system through prolonged or repeated exposure.
Harmful to aquatic life.
Toxic to aquatic life with long lasting effects.

- Allow at least 14 days between application and planting.
- Do not apply closer than 1 m from growing roots or in the mid-day shade area of shrubs and trees.
- Handle with extreme care.
- Toxic to bees and wildlife.
- Store under lock and key in a cool, dry place, away from food and feedstuffs.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area within two (2) days after treatment, unless wearing protective clothing.
- **In case of poisoning call a doctor and make this label available to him/her.**

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 pests 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, 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:**

Obtain, read and follow all safety instructions before use.
Do not breathe mists, vapours and spray.
Wash hands thoroughly after handling. Do not touch eyes.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release into the environment.
Wear impervious rubber gloves and boots, protective clothing, and chemical safety goggles.
IF SWALLOWED: Immediately call a POISON CENTER.
IF SWALLOWED, INHALED OR ON SKIN: Get emergency medical help immediately.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.

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 medical advice.
Rinse mouth.
If eye irritation persists: Get medical help.
Take off immediately all contaminated clothing and wash before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Prevent drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean applicator after use and dispose of wash water where it will not contaminate food, grazing, 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.
- **Do not** re-use the empty container for any other purpose.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils.

Relevant hazardous components	
Ethylene dibromide	1800 g/l
Naphtha solvent	< 60 g/l

SYMPTOMS OF HUMAN POISONING

Irritation of the eyes and mucous membranes, irritation or blistering of the skin, nausea, vomiting, increasing stupor, rapid pulse, coma.

FIRST AID TREATMENT

- Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure and consult a doctor.
- **Skin contact:** Remove contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **Immediately seek medical attention.**
- **Eye contact:** Flush eyes with clean water for at least 15 to 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after five (5) minutes and continue rinsing. **Seek medical attention if irritation persists or patient feels unwell.**
- **Swallowed:** **Immediately seek medical attention or call a poison control centre for treatment advice.** Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.
- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. **Immediately seek medical attention.**
- Do not apply mouth-to-mouth respiration. Never give anything by mouth to an unconscious person.
- **Take the patient immediately to the nearest physician.**

NOTE TO PHYSICIAN

There is no specific antidote available.

Treat symptomatically and supportively. **EDB** causes CNS depression, pulmonary edema, metabolic acidosis, acute renal and hepatic failure, and skeletal muscle necrosis. Suggest a blood bromine test. Dermal contact results in delayed onset of erythema, edema, and skin necrosis.

Monitor for hypotension, respiratory depression and the need for endotracheal intubation. Consider phenobarbital and/or phenytoin or fosphenytoin if seizures are uncontrollable or recur after diazepam 30 mg (adults) or 10 mg (children > 5 years).

PULMONARY EDEMA (NONCARDIOGENIC): Maintain ventilation and oxygenation with close arterial blood gas monitoring. Early use of PEEP and mechanical ventilation may be needed to maintain pO₂ greater than 50 mmHg with FIO₂ less than 60 %.

DIMERCAPROL (BAL) THERAPY should be considered in life threatening cases as a means of limiting sulfhydryl enzyme inhibition but has not been critically tested in controlled studies.

RESISTANCE WARNING

EDB MO is a group code 8 insecticide. Any insect population may contain individuals naturally resistant to **EDB MO** and other group code 8 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **EDB MO** or any other group code 8 insecticide.

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.

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

Mode of action:

Ethylene dibromide is a soil fumigant insecticide and nematicide that is active by respiration. The product chemically reacts with thiol and other reactive groups on amino acids and enzymes which results in disruption of respiration and other cellular functions.

USE RESTRICTIONS

- The soil must be moist, in good tilth and free of un-decomposed plant residues.
- Avoid re-infestation of the fumigated area by means of infested transplants, boots, irrigation water, flood water, machinery, etc.
- Do not use galvanized containers.
- The soil must be free of **EDB MO** before planting. This requires at least two (2) weeks and can be tested by smelling a handful of soil.
- If **EDB MO** is still present, the soil should be aerated by cultivation before planting.

DIRECTIONS FOR USE: Use only as directed.

Application:

- The **EDB MO** must be placed 15 to 25 cm deep into the soil and the furrows or injection holes must be closed immediately.
- Fumigation is more effective if the soil is sealed by rolling and overall light irrigation.
- Application of the undiluted concentrate: Apply into the plough furrow directly before the following sod falls into it. The plough furrows should not be wider than 30 cm. Apply with a special apparatus.
- Mixtures with water (the more diluted the better) tend to give more reliable results. Mix in the proportion of one-part **EDB MO** to three parts of water, or seven parts of water to obtain a mixture containing 450 g **EDB MO** per litre or 225 g **EDB MO** per litre respectively. For the 225 g per litre mixture, use double the amounts of the 450 g per litre mixture, as shown in the following table. Do not use hard water because the **EDB MO** may flocculate, so that the last two rows receive less **EDB MO**.
- An agitator is advisable. Before making up the 1 **PLUS** 3 or 1 **PLUS** 7 mixtures, first mix together equal volumes of **EDB MO** and water and pour this 1:1 mixture into the remaining measured 2 or 6 parts of water in the tank. Agitate well. The mixtures may not stand over until a later date. In case of an interruption, agitate well before continuing with the application.

APPLICATION RATES

Area treated	Rates of application		Remarks
	Of the concentrate	Of the 450 g/l mixture	
<u>Overall surface treatment</u>	20 to 50 l / ha	100 l / ha	When applying the concentrate, the dosage depends on degree of infestation and content of the soil.
<u>Row treatment</u>	60 to 150 ml / 100 m	1 l / 100 m	One furrow per plant row.
	2 x 30 to 75 ml / 100 m	2 x 500 ml / 100 m	Where two (2) furrows on both sides of, and 15 cm from the plant row are treated.
<u>Plant hole treatment</u>	4 ml / planting station		Apply with a hand injector at a depth of 20 to 25 cm.
<u>Seed beds and Small surfaces</u>	6 ml / 30 x 30 cm		Apply with a hand injector at a depth of 20 to 25 cm.