

MAXXTHOR®

100 WATER-BASED TERMITICIDE AND INSECTICIDE

Reg. No. L8793 Act/Wet No. 36 of/Van 1947
Namibian Reg. No. N-AR1411

READ ATTACHED PACKAGED LEAFLET BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

GROUP 3A INSECTICIDE

A suspension concentrate residual and contact insecticide for the control of subterranean wood destroying termites in and around structures and constructions, the control of ants, fleas, flies, cockroaches and mosquitoes in household, industrial locations including food handling and food processing areas, institutional situations and/or other locations and repelling the Northern harvester termite in the home garden.



WARNING

Active Ingredient: Bifenthrin (pyrethroid).....100 g/L

REGISTRATION HOLDER:

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I. SUBTERRANEAN WOOD DESTROYING TERMITE CONTROL

General use directions

- All the applications indicated must conform to the details set out in SANS 10124:2006, The application of soil insecticides for the protection of buildings.
- Do not apply to soils if excessively wet or immediately after heavy rain to avoid run-off of the termiticide. If more than 15 mm rain falls within 24 hours after application, the application should be repeated unless the treated soil was adequately protected against rain. The treated soil surface which serves as a barrier between the termites and the structure, should in all cases not be disturbed after treatment. Disturbance of the soil surface will thus damage the treated barrier, allowing termite access to the structure through disturbed areas.
- When applied prior to the construction of structures do not apply mixture until location of heat pipes, ducts, water and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injecting into these structural elements.
- Apply at rates recommended. Do not apply at rates lower than indicated.

SITUATION	DOSAGE PER 100 L WATER	APPLICATION DIRECTIONS
PRE CONSTRUCTION Preventive treatment		All active termite colonies situated on the site within 50 m of the perimeter of the structure that will be erected (or within the property boundary, whichever distance is the shorter), should be treated (see 'Treatment of active colonies' below). The treatment of the nests of the colonies will assist in preventing termite attack on structures that will be erected on the site. All cellulose containing material (wood, paper, etc.), a food source for termites, should be removed from the site before treatment. No structures i.e. floor slabs, paving etc. should be erected over termite food sources such as timber scraps left over from construction work.
	1,0 L (50 mL / 5 L water) 1,0 L (50 mL / 5 L water)	Treatment of active colonies Apply 5 L mixture to a termite nest as follows: <u>Termite mounds:</u> Remove the top of the mound with e.g. a spade and pour 5 L mixture into the nest. <u>Termite mounds with 'chimneys' (e.g. <i>Odontotermes</i> spp):</u> Pour 5 L mixture into all the chimneys that can be found. Divide the 5 L mixture evenly between the chimneys. Treatment of foundation and service trenches and foundation walls Treat the bottom and sides of foundation and service trenches at a rate of 5 L mixture per linear metre. Service trenches that accommodate sewers, water pipes and electric cables that enter the building must be treated for their full length inside the building. Treat all inner foundation walls on both sides and the outer foundation walls on the inside at a rate of 5 L mixture per linear metre. Treatment of soil surface under floor slabs After the ground has been filled and compacted but before concrete slab is cast, treat the hardcore and soil at a rate of 5 L mixture per 1 m ² to where the floor will be casted. Ensure good coverage where cables and/or piping enter the structure. <u>Note:</u> Special attention must in all cases be paid to thorough coverage along the inside of the foundation walls, indoor partition walls, around and along plumbing and electrical conduits (where applicable) and inside cavity walls. It is imperative that the mixture shall be applied in such a way that a continuous protective layer of the building's floor plan is achieved. Suspended floors Treat the entire surface area below the floors at a rate of 5 L mixture per 1 m ² . Ensure good coverage where cables and/or piping enter the structure. Pile and boom construction Treat the bottom surface of the pile and boom foundations at a rate of 5 L mixture per 1 m ² after compaction and before the concrete is cast. Unexposed soil surfaces Apply 5 L mixture per 1 m ² to the soil surfaces where paving, entrance steps, verandas, etc. will be connected to the structure.
POST CONSTRUCTION Corrective treatment		An outdoor and indoor treatment must be applied as a full corrective treatment post construction. With corrective treatments it is important that the application is carried out in such a way that the termiticide is distributed in a continuous layer in the soil under existing structures. A main reason for the failure of corrective treatments is that the termiticide is not distributed in such a continuous layer and any gaps, where there is no termiticide in the soil barrier, are rapidly exploited by termites to gain access to the structure. This is important under solid floors where it is often difficult to get the termiticide to distribute evenly under the floor in the compacted soil.
	1,0 L (50 mL / 5 L water)	Outdoor perimeter treatment <u>Trench application:</u> Dig a 30 cm wide and 45 cm deep trench around the exterior perimeter of the foundations. Do not dig below the foundation. Apply 5 L mixture per linear metre of the trench. Both the sides and bottom of the trench must be adequately covered by the application. Backfill the trench with soil that has been treated with the same mixture. Compact the treated soil used to backfill. Treat lengths of 3 to 6 m foundation at a time in order to prevent weakening of the foundation structure. <u>Drill and inject application:</u> Where concrete aprons, porches, verandahs, paved walkways etc. prevent the use of trenching as described above a perimeter drill and inject application should be carried out. Drill holes 30 cm apart around the entire outside perimeter of the structure. Holes must be drilled from the outside through the outer walls to ensure that the mixture is applied under the floor slab. Holes should be drilled to the top of the footing of the foundation. If the design of the structure is such that vertical holes cannot be drilled through the floor along the outside perimeter, then horizontal holes 30 cm apart must be drilled from the outside through the foundation wall into the soil underneath the solid floors. Flood the mixture into these holes at 100 L mixture per cubic meter soil per 30 cm depth. Seal the holes with mortar after the mixture has drained away. Indoor application <u>Suspended wooden floors:</u> Where possible a 30 cm wide trench should be dug around the inside of the foundation walls as deep as the top of the footing and treated with 5 L mixture per linear meter. The trench must be backfilled with treated soil and the latter compacted. This treatment must be done in sections of 3 to 6 m at a time in order not to weaken the foundation. Treat the surface of the crawl space and the enclosing walls at a rate of 5 L mixture per m ² . If there is no access openings should be cut into the floorboards and the treatment carried out as described above. The removed section must be replaced after application and sealed. Where there is no crawl space, holes can be drilled through the floor at regular intervals. The soil surface below the floor must be treated at a rate of 5 L mixture per m ² . Fill all holes with wooden dowels after application. <u>Solid floors:</u> Drill holes through the concrete floors around the inside perimeter of all rooms in the structure, approximately 1 m apart. Flood the mixture into these holes at 5 L per hole and seal the holes with mortar after the mixture has drained away. <u>Timber constructions:</u> Such as telephone and fence poles and garden huts, can be protected by treating the soil around the base of the construction with the spray mixture at 5,0 L per square meter per 30 cm soil depth. Apply to a depth of 15 cm below the bottom of the pole in the soil.

II. NORTHERN HARVESTER TERMITE REPELLENCY

Pest	Dosage rate	Remarks
Northern harvester termite (<i>Hodotermes mossambicus</i>)	100 mL / 10 L water	Apply to lawns at a rate of 5 L spray mixture per 100 m ² to stop activity for several weeks. Repeat when activity is noticed again.

III. ANT, FLEA, FLY, COCKROACHES AND MOSQUITO CONTROL

MAXXTHOR® 100 is an effective residual pesticide. Ants, fleas, flies, cockroaches and mosquitoes are controlled by direct contact with the spray and also by the residual action as they come into contact with treated surfaces.

Pest	Dosage rate	Remarks
Ants, fleas, flies, cockroaches, mosquitoes, and ticks	100 mL / 10 L water	<u>Non-porous surfaces:</u> apply as a coarse spray at the rate of 1 L of spray mixture per 20 m ² . <u>Porous surfaces:</u> apply at a rate of 1 L of spray mixture per 10 m ² . To control ants apply to trails and nests. To control fleas apply prepared mixture to outside surfaces of buildings and surrounds including but not limited to verandahs, window frames, eaves, patios, garages or other areas where pest congregate or have been seen. To control cockroaches, flies and mosquitoes apply prepared mixture to surfaces where insects rest or harbour. When treating porous and non-porous surfaces, do not exceed the point of run-off. Reapply applications as necessary.

GHS Signal word: **WARNING**

HAZARD STATEMENT:

H302: Harmful if swallowed.
H333: May be harmful if inhaled
H411: Toxic to aquatic life with long lasting effects.

DISCLAIMER

Ensystex South Africa (Ensystex) warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with Directions for Use under normal conditions of use. No warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of the product contrary to label instructions or under abnormal conditions.

PREVENTION

P102: Keep out of reach of children.
P261: Avoid breathing mist.
P264: Wash contacted areas thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.

RESPONSE

P362: Take off contaminated clothing and wash before reuse.
P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P312: IF INHALED: Call a POISON CENTRE or doctor if you feel unwell.
P301+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P391: Collect spillage.
P370+P378: Not combustible. Use extinguishing media suited to burning materials.

PRECAUTIONS

- Avoid contact with eyes and skin and do not inhale fumes of spray mist.
- Wear protective clothing, appropriate gloves and boots and face shield when handling the concentrate and protective gloves and boots, respirator and face shield during application.
- Do not eat drink or smoke whilst applying or mixing or before washing hands and face and change of clothing.
- Wash contaminated clothing daily.
- Wash hands and face with soap and water after handling. In case of accidental contact with skin wash affected area immediately with plenty of soap and water.
- In case of accidental contact with eyes, rinse immediately with clean water for at least 15 minutes and obtain medical advice.
- When applied for the control of ants, cockroaches, fleas, flies and mosquitoes, remove pets and aquaria.
- Prevent contamination of rivers, dams, drains and areas not under treatment.
- Clean spray equipment thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Prevent contamination of food, feed, eating utensils and drinking water.

DISPOSAL

P501: If they cannot be recycled, dispose of contents to an approved waste disposal plant and containers to landfill

SYMPTOMS OF POISONING

Overexposure may lead to bleeding from the nose, tremors and convulsions, incoordination, salivation, vomiting, diarrhea, and irritability to sound and touch. Skin contact may produce sensations such as numbing, burning and tingling.

FIRST AID TREATMENT

Skin contact: Remove contaminated clothing and shoes. Wash affected areas with plenty of soap and water. Do not rub skin. If irritation occurs and persists, get medical attention.

Eye contact: Rinse immediately with clean water for at least 15 minutes. If irritation occurs obtain medical advice.

Ingested: Do not induce vomiting. Wash mouth with water. Contact a medical doctor or take patient to nearest hospital.

Inhaled: Remove patient to fresh air. If breathing difficulty or discomfort occurs and persists, get medical attention.

NOTE TO PHYSICIAN

There is no known antidote for acute bifenthrin poisoning. Treat symptomatically with supportive care.

RESISTANCE WARNING

For resistance management, MAXXTHOR® 100, is a group code 3A insecticide. Any insect population may contain individuals naturally resistant to MAXXTHOR® 100 and other group code 3A insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by MAXXTHOR® 100 or any other group code 3A insecticides.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insecticide group code.
- Alternate with insecticides from other insecticide group codes.
- Integrate other control methods (chemical, biological) into insect control programmes.

For specific information on resistance management contact ENSYSTEX.

DIRECTIONS FOR USE

Use only as directed.

MAXXTHOR® 100 is recommended as a soil treatment to prevent and control subterranean wood destroying termite infestations in and around buildings and timber installations such as telephone poles and fences. Apply MAXXTHOR® 100 to the soil or inject it into the soil under buildings to form a treated barrier between the timber and the subterranean termites in the soil.

MAXXTHOR® 100 is also recommended to be applied as a surface treatment for the control of ants, cockroaches, fleas, flies and mosquitoes in household, industrial locations including food handling and food processing areas, institutional situations and/or other locations and to be applied as a surface treatment for the repellency of the northern harvester termite on lawns of a home garden.

Mixing instructions

Prior to mixing, shake container thoroughly. Premix the required quantity of MAXXTHOR® 100 with a small amount of water in a clean bucket. Fill the spray tank half with water and add the premixed MAXXTHOR® 100. Fill the spray tank with water to the required volume. Agitate the contents of the spray tank. Do not store prepared mixture.