

Avicta[®] 500 FS

syngenta

Reg.No L9258 Act No. 36 of 1947 N-AR 1423 (Namibia) W130702 (Botswana)

A flowable concentrate seed treatment for control of nematodes in maize and cotton.

GROUP 6 NEMATICIDE

Active Ingredients:
abamectin (avermectin)..... 500 g/l

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DANGER

Hazard statements:

Fatal if swallowed or if inhaled. Suspected of damaging the unborn child. Causes damage to organs (nervous system) through prolonged or repeated exposure. Very toxic to aquatic life with long-lasting effects.

Precautionary statements:

Prevention: Do not breathe mist or vapours. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. **Response:** If swallowed, immediately call a POISON CENTRE/doctor. Rinse mouth. If inhaled, remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE/doctor. Collect spillage. **Storage:** Store in a well-ventilated place. Keep container tightly closed.

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1. WARNINGS:

Hazard statements: Fatal if swallowed or if inhaled. Suspected of damaging the unborn child. Causes damage to organs (nervous system) through prolonged or repeated exposure. Very toxic to aquatic life with long-lasting effects.

FOR SALE TO AND USE ONLY BY REGISTERED SEED SUPPLY COMPANIES DOING BULK SEED TREATMENT EQUIPPED WITH AVICTA-CERTIFIED APPLICATORS.

NOT FOR USE IN ANY FARMER-APPLIED APPLICATOR.

TO BE USED IN SEED TREATMENT EQUIPMENT WITH CLOSED-TRANSFER SYSTEM ONLY.

- Do not graze crops of which the seed has been treated within eight (8) weeks after planting. Exposed treated seeds may be hazardous to wildlife.
- Very toxic by inhalation and if swallowed.
- Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
- Highly flammable.
- Irritating to eyes.
- Toxic to fish and wildlife.
- Hazardous to humans and domestic animals. May be fatal if swallowed and fatal if inhaled. Harmful if absorbed through skin.
- Store in a cool, dry place.
- Store away from food, feed and drinking water.
- Keep out of reach of children, uninformed persons and animals.
- Handle with care.
- Protect from light.
- Treat only seed that is to be planted during the same season.
- Treated seed should not be carried over from one season to the next.
- Treated seed may not be used for human or animal consumption.
- **In case of poisoning:** Call a doctor and present this label, or transfer patient to hospital.

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 disease 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 and the environment, or harm to people 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, that could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

2. PRECAUTIONS:

Precautionary statements: Prevention: Do not breathe mist or vapours. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. **Response:** If swallowed, immediately call a POISON CENTRE/doctor. Rinse mouth. If inhaled, remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE/doctor. Collect spillage. **Storage:** Store in a well-ventilated place. Keep container tightly closed.

- Very toxic by inhalation.
- Avoid contact with skin, eyes or clothing. Causes moderate eye irritation.
- If poisoning is suspected and discomfort is experienced, stop working immediately and consult a doctor.
- Wash thoroughly with soap and water in the event of accidental skin contact.
- Wash thoroughly with soap and water immediately after handling or use and before eating, drinking, chewing gum, or using tobacco.
- Remove and wash contaminated clothing after use.
- Do not apply this product directly to water or to areas where surface water is present. Do not contaminate water when disposing of equipment wash water. Prevent contamination of water intended for household or irrigation purposes. Avoid contamination of other crops, grazing, rivers, dams and boreholes.

- Prevent contamination of food, feed, drinking water and eating utensils.
- Bury all treated seed spilled on soil surface.
- Destroy empty container in the prescribed manner.
- Do not use empty container for any other purpose. Triple rinse, then puncture and dispose of in prescribed manner.
- Mark bags containing treated seed clearly with the following statements: *This seed has been treated with abamectin nematocide, do not use treated seed for feed, food or oil purposes.*
- During planting, treated seed must be completely covered with soil in a depth greater than 2.5 cm.
- Do not use excess seed as feed for birds or animals.

The following personal protective equipment and clothing are required when using this product:

Seed treatment workers: Workers involved with treating the seed (e.g., connecting and disconnecting hoses and transfer pumps, mixing, equipment calibration, etc.) must wear:

- Chemical resistant gloves.
- Protective eyewear.
- Coveralls over long sleeved shirt and long pants.
- Chemical-resistant apron.
- Shoes and socks.

Seed treatment workers: Baggers and bag sewers must wear:

- Dust/mist filtering respirator (NIOSH-approved respirator with any N, R, P or HE filter).
- Long sleeved shirt and long pants.
- Shoes and socks.

Seed treatment workers: Workers involved with clean up and maintenance of seed treatment must wear:

- Chemical resistant gloves.
- Protective eyewear.
- Respirator with an organic-vapour removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approved) or a canister approved for pesticides (MSHA/NIOSH approved) or a NIOSH-approved respirator with an organic vapour (OV) cartridge or canister with any N, R, P or HE pre-filter.
- Chemical-resistant coveralls over long sleeved shirt and long pants.
- Shoes and socks.

First Aid and Medical Treatment

- **If inhaled:** Move person to fresh air. If person is not breathing, call a doctor or an ambulance, then give artificial respiration preferably by mouth-to-mouth, if possible. Call a poison control centre or a doctor for further treatment advice.
- **If swallowed:** Call poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison centre or doctor. Do not give anything by mouth to an unconscious person.
- **If in eyes:** Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing

eye. Call a poison control centre or doctor for treatment advice.

- **If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control centre or doctor for treatment advice.

Note to physician:

Early signs of intoxication include dilation of pupils, muscular incoordination and muscular tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal).

If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms and measurements.

In severe cases, observations should continue for at least several days until clinical conditions are stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

3. RELEVANT SUBSTANCES:

Chemical name	
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
Classification	Concentration (% w/w)
Acute Tox. 2; H300 Acute Tox. 1; H330 Acute Tox. 3; H311 Repr. 2; H361 STOT RE 1; H372 (nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	≥ 30 - < 50
M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
Chemical name	
methanol	
Classification	Concentration (% w/w)
Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370	≥ 0,1 - < 0,25

4. USE RESTRICTIONS:

- **AVICTA 500 FS** may only be used on commercially available certified seed.
- Do not use on inbred parent plants of hybrids or experimental cultivars. In the case of newly released cultivars or hybrids, use only after consultation with

Syngenta or your seed supplier.

- Sufficient soil moisture and mild weather conditions are important for the efficacy of **AVICTA 500 FS**. Unfavourable germination conditions, such as prolonged cold spells after planting, drought, excessive moisture, or a combination thereof, can cause delayed germination.

5. DIRECTIONS FOR USE: Use only as indicated.

5.1 Compatibility

- **AVICTA 500 FS** may be used on seed previously treated with a fungicide.
- Should **AVICTA 500 FS** be used in combination with a fungicide seed treatment product, the seed must first be treated with the fungicide according to the manufacturer's instructions. Thereafter it may be treated with **AVICTA 500 FS**.
- **AVICTA 500 FS** can be used in combination with Syngenta fungicide and insecticide seed treatments (APRON XL 350 ES (L6837), CELEST XL 035 FS (L6353), CELEST XL WHITE (L7480), DIVIDEND 030 FS (L6390), CRUISER (L6288), CRUISER WHITE (L7546)) and CRUISER FORCE, these products can be mixed and applied simultaneously.
- Syngenta does not accept responsibility for the malfunctioning of **AVICTA 500 FS** in cases where other seed treatment products that are not specified on the label, are used in combination with **AVICTA 500 FS**.

5.2 Mixing Instructions

- Always treat seed in a well-ventilated area.
- Thoroughly mix the recommended amount of **AVICTA 500 FS** and other seed treatment products desired with the amount of water required for the slurry treater and the dilution rate.
- Mix thoroughly with the recommended amount of water before adding to the seed.
- Use mixture immediately after preparation.

5.3 Seed Treatment

- **AVICTA 500 FS IS NOT FOR USE IN ANY FARMER-APPLIED APPLICATION.**
- **TO BE USED IN SEED TREATMENT EQUIPMENT WITH CLOSED-TRANSFER SYSTEM ONLY.**
- **AVICTA 500 FS** can be applied with closed system seed treatment apparatus, provided that the product mixture is applied directly to the seed through spray nozzles or by rotary disks, during the seed treatment process. It is important that the applicator is calibrated using **AVICTA 500 FS**, as the flow rate may differ from other products used for seed treatments.
- Add the recommended quantity of **AVICTA 500 FS** to clean water so that the prescribed amount of mixture per volume of seed is not exceeded.
- Add the mixture to the seed while mixing, until even coverage is achieved. Mix until the seed is evenly coated and appears dry with no excess mixture remaining on the sides or in the bottom of the mixer. Do not mix for longer than necessary.

COMMENT: Clean all apparatus thoroughly after treatment and application.

6. APPLICATION RATES:

A soil fumigant is recommended in areas with a history of high nematode populations.

MAIZE

Pest	Dosage rate
Root knot nematode (<i>Meloidogyne incognita</i>)	0.25 mg a.i./seed, OR 0.0005 ml product/ seed (kernel).
Remarks	
<ul style="list-style-type: none"> • Seed treated with AVICTA 500 FS must preferably be planted between 3 and 5 centimetres deep. • Use the tables below to determine the correct dosage rates for early season protection for maize seedlings against nematodes. 	
This section applies for seed packed as number of kernels per bag	
50	100 000
45	90 000
40	80 000
35	70 000
30	60 000
25	50 000

COTTON

Pest	Dosage rate
Root knot nematode (<i>Meloidogyne incognita</i>)	0.25 mg a.i./seed, OR
Lesion Nematode (<i>Pratylenchus penetrans</i>)	0.0005 ml product/ seed (kernel).
Remarks	
<ul style="list-style-type: none"> • To control early season nematodes, apply the specified dosis. • Seed treated with AVICTA 500 FS must preferably be planted between 2½ and 5 centimetres deep. 	

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