

Amistar

A broad-spectrum, foliar fungicide with systemic properties for the control of leaf and ear diseases in wheat and barley.

REGISTRATION NO. PCPB(R) 0191

Suspension concentrate

GUARANTEE: Azoxystrobin 250 g/lit.

COMMERCIAL AND AGRICULTURAL CLASS

KEEP LOCKED OUT OF REACH OF CHILDREN

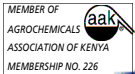

READ LABEL AND ATTACHED LEAFLET BEFORE USING

Shelf Life: At least 2 years from date of manufacture in original unopened containers.


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Manufactured by: Syngenta Crop Protection AG, Basle, Switzerland

Distributor: Syngenta East Africa Ltd
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Colour band: GREEN



Mode of Action

The fungicidal activity of azoxystrobin results from the inhibition of mitochondrial respiration in fungi. Azoxystrobin is readily taken up and redistributed within the plant. It diffuses through the leaf to reach the vascular tissues and moves acropetally in the transpiration stream. Due to the even distribution of the fungicide, excellent protection throughout the plant is achieved. Azoxystrobin has distinct novel biological properties, which enhance its disease control, and thereby ensuring high yields:

1. Preventative activity – azoxystrobin is a highly potent inhibitor of spore germination and the early stages of fungal development. This confers excellent protection against invasion by fungal pathogens.
2. Curative and eradicant activity – azoxystrobin is also active against post-germination stages of the life cycle in various fungal species. Azoxystrobin also confers antispore activity and also translaminal movement within plant leaves.

In cereals azoxystrobin shows outstanding persistence of fungicidal effect on cereals. The control of a broad spectrum of foliar and ear diseases confers a remarkable improvement in the retention of healthy green leaves until late into the season. This gives an outstanding yield benefit of high quality.

For optimal results its recommended to use AMISTAR® before disease development – preventative disease control. This enables maximum advantage to be derived from the powerful combination of activity against spore germination and mycelial growth.

Spectrum of Activity

Wheat

Puccinia graminis	Black rust/stem rust
Puccinia recondita	Brown rust
Puccinia striiformis	Yellow rust/stripe rust
Septoria spp.	Leaf spot/leaf blotch
Fusarium spp	

Barley

Helminthosporium sativum	Spot blotch
Puccinia hordei	Brown rust
Puccinia striiformis	Yellow rust/stripe rust
Pyrenophora teres	Net blotch
Rhynchosporium secalis	Leaf blotch/scald

Crop tolerance

When used according to recommendations, AMISTAR® is well tolerated by wheat and barley.

IPM-Fitness

AMISTAR® can be recommended before onset of disease development. AMISTAR® is safe to the majority of beneficial arthropods and is thus suitable for use in IPM systems.

Directions for Use

To avoid risks to man and the environment, comply with the instructions for use.

Wheat

Target diseases	Yellow rust – Puccinia striiformis; Leaf (brown) rust – Puccinia recondita; Leaf blotch - Septoria tritici; Fusarium spp
Rate:	0.75 lt./ha
Interval:	3-5 weeks, depending on disease pressure
Timing:	AMISTAR® should be applied at flag leaf
PHI:	35 days

Barley

Target diseases	Net Blotch – Helminthosporium teres; Spot blotch – Helminthosporium sativum; Scald – Rhynchosporium secalis
Rate:	0.75 lt./ha
Interval:	3-5 weeks, depending on disease pressure
Timing:	AMISTAR® should be applied at flag leaf.
PHI:	35 days

Application Information

All application equipment has to be properly calibrated before use with regard to forward speed, flow rate and evenness of distribution. Avoid spray drift to non-target sites. Stop spraying in winds higher than 5 m/s. Do not spray during the hot hours of the day, if the foliage is wet or rain is imminent.

AMISTAR® is best applied with tractor boom sprayers at volume rates of 100-500 lt./ha (optimum 200 lt./ha). Use 1100 flat fan nozzles at 2-5-bar pressure. Boom height should be 30-50 cm above crop canopy. When using portable equipment, keep your walking speed steady. With knapsack sprayers 150-600 lt./ha are recommended and hollow cone nozzles with a pressure of 2-3 bars should be used.

Aerial application

Fixed wing aircraft equipped with boom and hollow cone nozzles or rotary atomisers can be used. Boom length should not exceed 80% of the wingspan. Use hollow cone nozzles oriented 90-135° relative to the direction of flight.

Proper flagging is important. Avoid temperatures above 29°C, and relative humidities below 60%. Spray volumes of 30-50 lt./ha, and a flight height of 2-3 m over the crop are ideal.

Mixing

Make certain the spray tank/mixing tank is clean and not contaminated. Shake the product in the pack well before pouring. Calculate carefully the amount of spray mixture in order to prevent any left over in the spray tank after spraying. Do not pre-mix in bulk for more than a days work. Triple rinse empty containers and add the rinsate to the spray mixture.

Fill 1/3 to 1/2 of the spray tank/mixing tank with clean water, start agitation, add the required and measured product and continue to refill the tank while continuing agitation. Continue agitation during mixing and application to maintain a uniform spray mixture. When filling the tank, the filling hose should always be above water level in order to prevent suck back.

Compatibility

AMISTAR® is tank-mix compatible with major commonly used pesticides. Where there is doubt, it is recommended to check local compatibility on a small scale first, before spraying a large area.

Pre-harvest interval

Do not harvest crop from sprayed area until 35 days after the last AMISTAR® spray.

Re-entry period

Do not enter treated areas before spray deposit on leaf surfaces has completely dried, unless protective clothing is worn.

Clean up procedure

Flush the sprayer/aircraft with clean water after application or at the end of the day by spraying the rinsing at a dilution rate of at least 1:10 (spray mixture:rinsate) on the crop.

Hazards and Precautions

Precautionary measures

KEEP LOCKED UP OUT OF REACH OF CHILDREN and other unauthorised persons and animals.

Operator safety

AMISTAR® is irritant to the skin and eyes and by inhalation. AVOID getting product or spray mixture in contact with eyes, skin, or clothes. DO NOT breathe vapour or spray mist. DO NOT eat, drink or smoke while handling the product and wash hands and face thoroughly before doing so. If poisoning is suspected, call a physician immediately. WEAR overalls, hat or cap, face shield, gumboots, and gloves, when handling the product. Wash off accidental splashes of concentrate and spray mixture from skin and working clothes immediately. After work, change clothes and thoroughly wash entire body, including hair. Launder contaminated working clothes before re-use.

FIRST AID INSTRUCTIONS

If poisoning is suspected stop work immediately and call a physician. Show product label to the physician. Move the patient away from further contact with the pesticide and place him in a well-ventilated area. Strip off all clothing and wash entire body including hair with soap and water. If product is spilt in the eyes, rinse eyes with abundant fresh and clean water (for at least 15 minutes). If product is ingested, administer a large quantity of activated medical charcoal. Never give anything by mouth to an unconscious person. DO NOT induce vomiting.

TOXICOLOGICAL INFORMATION

Symptoms of poisoning: AMISTAR® is of low mammalian toxicity. No case of human poisoning is on record.

Note to the doctor: Apply symptomatic therapy

Antidote: No specific antidote is known.

WHO Class IV - unlikely to cause acute hazard in normal use

Storage

Store in a cool and dry place in original sealed container, away from food and feed and the access of unauthorized persons, children, and animals.

Avoid storage above +35°C.

Product and Container Disposal

Dispose of surplus product on a landfill site approved for pesticides or bury in a safe place away from water sources. Dilute surplus spray mixture with plenty of water and pour it broadcast on non-crop area (fallow land). Empty containers, rinse with water several times, add rinse solutions to the spray tank. Do not contaminate water sources by disposal of wastes. Do not re-use empty containers for any other purpose, especially for food and feed or storing drinking water.

Spillage and Leakage

Remove heavily contaminated soil layer and bury in a safe place away from water sources.

Spillages: soak up with sand, sawdust, soil or an oil-binding agent. Collect up the contaminated material thoroughly and bury in a safe place or put in a waste bin or a plastic bag, mark it and dispose of on a landfill site approved for pesticides. Treat spill areas with plenty of water.

Environment and Wildlife

Toxic to fish and aquatic organisms. DO NOT contaminate water used for irrigation or domestic purposes and water sources, such as ponds, ditches, lakes, drainage systems, etc., by disposal of product waste. Newly treated areas must not be grazed and all livestock is to be kept out.

Shelf life: At least two years from date of manufacture in original, unopened containers, in a cool dry place.

Notice to User

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use or store a pest control product under unsafe conditions.

Users Risk

Seller's guarantee is limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

Before applying the product read the attached product label and accompanying packaging leaflet.

Use pesticides safely.

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