

L1062444 ZAMB/04Y PPE 4121043



Amistar Xtra®

syngenta.

KEEP LOCKED UP OUT OF REACH OF CHILDREN.

HARMFUL IF SWALLOWED.

Before opening the container, read the safety advice.

Shelf-Life: At least 3 years from date of manufacturing, in original unopened containers stored in a cool dry well ventilated place.

Emergency Call Number:

Swiss Toxicological Information Centre,
(24 h) +41 44 251 51 51

Manufactured by:

Syngenta Crop Protection AG, Basel, Switzerland

Distributor: Syngenta Zambia Ltd.

Plot 5255, Mukwa Road, P.O. Box 33088,
Lusaka, Zambia, Tel.: +260 211 244 766



5 Litres

Product names marked ® or TM, the ALLIANCE FRAME, the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company



WARNING



1. WARNINGS:

Withholding periods: Minimum number of days between last application and harvest.

Soybeans 40 days

Wheat and barley 63 days

Groundnuts 21 days.

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local Maximum Residue Limits.

- Harmful if swallowed.
- Toxic to fish and harmful to other aquatic life.
- Avoid contact with skin or eyes since product may cause eye and skin irritation.
- Store away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be effective 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, 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.

2. PRECAUTIONS:

- Do not eat drink or smoke whilst handling this product.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Wear rubber gloves and a face shield when handling the product.

If you get product in your eyes, flush it out at once. If you get it on your skin, wash it off at once. If you spill it on your clothes, change and wash them.

- 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 rinsing to the contents of the spray tank before destroying the container.
- While spraying, avoid contact with the spray as much as possible. Avoid spray drift onto other crops, grazing, rivers or dams.
- Clean applicator thoroughly after use and dispose of cleansing water where it will not contaminate crops, grazing, rivers or dams.
- Destroy empty container and do not use for any other purpose.
- Change and wash your work clothes. Wash yourself.

3. RESISTANCE MANAGEMENT

For resistance management, Amistar Xtra® is classified as a group code 11 and 3 fungicide. Any fungus population may contain individuals naturally resistant to Amistar Xtra® and other group code 11 and 3 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly and exclusively in programs. These resistant fungi may not be controlled by Amistar Xtra® or any other group code 11 and 3 fungicides. To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate with products from different fungicide group codes.
- Refer to individual product labels when alternating products or when using tank mixtures.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

3.1 General:

Both active ingredients act as an inhibitor of mitochondria respiration by disrupting the energy cycle within the fungus and interrupting the biosynthesis of ergosterol. This interferes in the fungal life cycle mainly during spore germination, infection and hyphen growth. Both active ingredients are transported acropetally and translaminary in the xylem and therefore gradual uptake in to the leaves of the plants. Due to its dual mode of action and high systemicity,

- Amistar Xtra® should always be applied preventively as prescribed in the recommendations table.
- Application May be applied by boom spray or aircraft. Ensure complete coverage of all leaves and stem is obtained.
- Amistar Xtra® must be applied as a full cover spray.
- Always use the dosage rates as recommended on the label.
- Never use Amistar Xtra® as a corrective or curative application or after unsuccessful application of any product.
- Use only azoxystrobin related strobilurin products in the same programme with Amistar Xtra®.
- For specific information on resistance management contact the registration holder of this product (Syngenta South Africa) or visit the FRAC website at <http://www.frac.info/frac/index.html>

4. DIRECTIONS FOR USE:

4.1 Compatibility:

Amistar Xtra® is compatible with most fungicides, insecticides and acaricides with the exception of products containing heavy metals. The compatibility of Amistar Xtra® may be influenced by the formulation of the products involved as well as the quality of the water. Since the formulation of other products may change without the knowledge of Syngenta and the quality of water may vary from farm to farm, a physical compatibility test should always be carried out prior to application.

4.2 Mixing instructions:

Half fill the spray tank with clean water. Add the required amount of Amistar Xtra® to the spray tank and top up with water to the required volume while agitating continuously.

If Amistar Xtra® needs to be used in tank mix combinations, full cognisance must be taken of all warnings, precautions and directions for use on that label. First mix small quantities of the chemicals separately with water.

It is recommended to add these mixtures together while agitating and check for any signs of incompatibility e.g. flocculation etc. Continue agitation throughout application and do not allow the tank mixture to stand still for any period of time.

4.3 Application:

Ensure that the applicator to be used is in a good working condition and correctly calibrated. Use the spray volumes as indicated in the relevant tables to ensure good coverage. Ensure thorough agitation of the mixture in the tank during mixing and spraying.

Influence of rain on application:

Should it rain within two hours after application, the application must be repeated.

4.3.1 Ground Application

Amistar Xtra® may be applied with conventional high volume spray equipment. Calibrate the apparatus before application to ensure that

the correct dosage is applied. The distribution of the spray volume must be uniform throughout the target area.

Ensure good coverage of the whole plant (the stems and leaves) by using enough water and suitable spraying equipment.

4.4 RECOMMENDATIONS:

For the best results, study the sections under 3.1 and 4.1 to 4.3 thoroughly.

4.4.1 SOYBEANS

CROP/DISEASE	DOSAGE
SOYBEANS Red Leaf Blotch (<i>Pyrenochaeta</i>)	Ground application 300 ml/ha

REMARKS:

- Apply at first signs of disease or at flowering if no disease is present and repeat 14-21 days later.
- If weather conditions favour disease development (temperatures of 15-28°C and high humidity) use the shorter interval.
- For season long control of foliar diseases, it is important that a spray programme be used.
- Amistar Xtra® can be used in spray programmes with Amistar Top® (L7897), Artea® (L6820) or Score® (L5132).
- If the disease appears before or during flowering, more than one spray may be necessary.
- Should the disease appear late in the growing season, a single application will be sufficient.
- Do not apply more than two (2) applications of azoxystrobin (Amistar Xtra®, Amistar Top®) to soybeans in the same season.

Spray volumes:

Tractor application: 300-400 l water/ha

4.4.2 WHEAT AND BARLEY

CROP/DISEASE	DOSAGE
WHEAT Leaf rust (<i>Puccinia recondita</i>) Yellow/stripe rust (<i>Puccinia striiformis</i>) Speckled leaf blotch (<i>Septoria tritici</i>) Glume blotch (<i>Septoria nodorum</i>)	Ground application 400-800 ml/ha. Apply after flag leaf is 70% emerged and before disease levels reach 1% of flag leaf area. Consider control if disease is greater than 5 to 10% on any lower leaf layer. Use higher rates under high infection pressure or when longer residual protection is required. Ensure thorough coverage.
WHEAT Powdery Mildew (<i>Erysiphe graminis</i>)	Ground application 400-800 ml/ha. Spray at the first sign of the disease during the tillering stage. A repeat spray 21 to 28 days later may be required. Ensure thorough coverage of stems and leaves. Higher rates provide longer protection.
BARLEY Leaf spot (<i>Rhynchosporium secalis</i>) Net blotch (<i>Pyrenophora teres</i>) Leaf rust (<i>Puccinia hordei</i>)	Ground application 400-800 ml/ha. Apply from jointing (Z30) and before infection averages 10% on the flag-2 leaf. Ensure thorough coverage of stems and leaves. Use higher rates under high infection pressure or when longer residual protection is required. Repeat application at early booting stage if necessary. Two applications of the lower rate will generally provide better control than a single application at the higher rate.

CROP/DISEASE	DOSAGE
Powdery Mildew (<i>Erysiphe graminis</i>)	Ground application 400-800 ml/ha. Spray at the first sign of the disease during the tillering stage. A repeat spray 21 to 28 days later may be required. Ensure thorough coverage of stems and leaves. Higher rates provide longer protection.

REMARKS:

- Apply at first signs of disease, but not later than the 6-leaf stage (37-51 BBCH).
- Follow up with a second application 21-28 days later.
- Do not make more than two (2) applications of Amistar Xtra® to barley in the same growing season.

Spray volumes:

Tractor application: 200-300 l water/ha

4.4.3 GROUNDNUTS

CROP/DISEASE	DOSAGE
GROUNDNUTS Early Leaf Spot (<i>Cercospora arachidicola</i>) Late Leaf Spot (<i>Cercosporidium personatum</i>) Net Blotch (<i>Phoma arachidicola</i>) Rust (<i>Puccinia arachidicola</i>)	Ground application 400-800 ml/ha Apply 1 to 2 applications of Amistar Xtra® at 10 to 14 day intervals from first flowering and before disease symptoms appear or when disease pressure is low. Use the low rate when disease pressure is low eg early season plantings, and use higher rates when weather conditions favour disease development and/or the crop has a large canopy. When targeting Net Blotch, or when weather conditions are not favourable for application, add a non-ionic surfactant at its recommended use rate.

REMARKS:

- Speckled/glume blotch and powdery mildew: Use the 3rd leaf as indicator and apply when not more than 5% of the surface of this leaf is infected. Optimum time for this application is between the flag leaf and ear emergence stages (37-51 BBCH).
- Leaf rust, yellow/stripe rust: Apply at first signs of the disease.
- Follow up with a second application 21-28 days later.
- Do not make more than two (2) applications of Amistar Xtra® to wheat in the same growing season.

Spray volumes:

Tractor application: 200-300 l water/ha

4.4.4 CANOLA

CROP/DISEASE	DOSAGE
CANOLA Dark leaf and pod spot (<i>Alternaria brassicae</i>)	Ground application 1000 - 2000 ml/ha

REMARKS:

- Apply as part of a preventative spray program.
- Ensure that the crop is free from environmental stress conditions or agronomic effects.
- A second application may be needed under high disease pressure conditions or if disease pressure remains high.
- Applications can be made up to beginning of ripening, or 30 days prior to harvest, whichever situation is sooner.

Spray volumes:

Tractor application: 200 - 450 l water/ha

4.4.5 SUGARCANE

CROP/DISEASE	DOSAGE
SUGARCANE Brown rust (<i>Puccinia melanocephala</i>) Orange rust (<i>Puccinia kuehnii</i>)	Ground application 500 ml/ha

REMARKS:

- All applications must be made preventatively.
- Apply two (2) applications with AMISTAR XTRA at 28 day intervals, starting at 4 - 6 leaf stage.
- Do not apply AMISTAR XTRA more than four (4) times per crop cycle.
- The addition of an adjuvant may enhance disease control potential of AMISTAR XTRA.

Spray volumes:

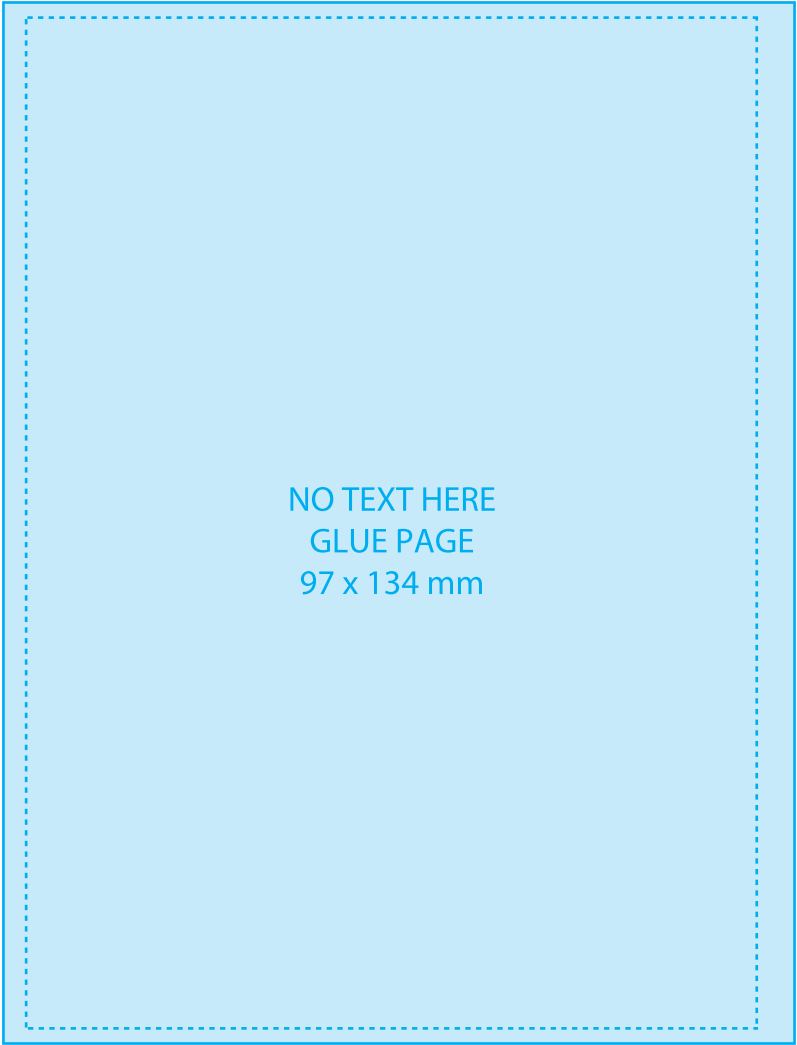
Tractor application: 300 - 400 l water/ha

Aerial application: 30 - 40 l water/ha

Amistar®, Artea® and Score®:
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Amistar Top™: Proposed Trade Name of a
Syngenta Group Company

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