

# **SOYBEAN - RUST**

## General Information

### PRODUCT INFORMATION

Alto 100SL Fungicide is a broad spectrum fungicide for control of certain diseases in soybeans, peanuts, and wheat. All applications must be made according to the use directions that follow.

### Integrated Pest (Disease) Management

Alto 100SL Fungicide should be integrated into an overall disease and pest management strategy whenever the use of a fungicide is required. Cultural practices known to reduce disease development should be followed. See Section 7.0 for crop-specific IPM recommendations. Consult your local agricultural authorities for additional IPM strategies established for your area. Alto 100SL Fungicide may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

### Resistance Management

Alto 100SL Fungicide is a triazole fungicide belonging to the Group 3 class of compounds. The mode of action of Alto 100SL Fungicide is as a DMI (demethylase inhibitor of sterol biosynthesis). Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the crop and use area. Consult your local or State agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include rotating and/or tank mixing with products having different modes of action or limiting the total number of applications per season. Syngenta encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label.

Alto 100SL Fungicide should not be alternated or tank mixed with any fungicide to which resistance has developed for the disease to be controlled.

### APPLICATION DIRECTIONS

## Methods of Application

Alto 100SL Fungicide may be applied via ground, by air, or chemigation depending on the crop. Refer to Section 7.0 for crop-specific instructions.

## Application Equipment

Alto 100SL Fungicide may be applied with all types of spray equipment commonly used for making ground and aerial applications. Do not apply Alto 100SL Fungicide through any type of ultra-low volume (ULV) spray system. Proper adjustments and calibration of spraying equipment to give good canopy penetration and coverage is essential for good disease control.

## Application Volume and Spray Coverage

Apply Alto 100SL Fungicide in a minimum spray volume of 10 gallons per acre for ground application, and 2 gallons per acre for aerial application. Use sufficient water for adequate coverage and canopy penetration.

## SPRAY ADDITIVES

- When an adjuvant is to be used with this product, use one that meets the standards of the Council of Producers & Distributors of Agrotechnology (CPDA) adjuvant certification is recommended.
- Refer to individual crop use directions in Section 7.0 for use of additives.

## Application through Irrigation Systems (Chemigation)

- If you have questions about calibration you should contact State Extension Service specialist, equipment manufacturers or other experts.

## CHEMIGATION RESTRICTIONS

- Apply Alto 100SL Fungicide only to crops for which chemigation is specified on this label.
- Do not apply this product through any other type of irrigation system except as specified on this label.
- Do not apply when winds are greater than 10-15 mph to avoid drift or wind skips.
- Do not apply when wind speed favors drift beyond the area intended for treatment. Plant injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform treated water.
- Do not inject Alto 100SL Fungicide at full strength or deterioration of valves and seals may occur. Use a dilution ratio of at least 10 parts water to 1 part Alto 100SL

Fungicide. Alto 100SL Fungicide is corrosive to many seal materials.

Leather seals are best. EPDM or silicone rubber seals can be used, but should be replaced once a year. Do not use Viton, Buna-N, Neoprene, or PVC seals.

- Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- Do not connect an irrigation system used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

## RESTRICTIONS AND PRECAUTIONS

### Use Restrictions

- Do not use in nurseries or greenhouses.

### Use Precautions

- Higher rates in the specified rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when environmental conditions are conducive to disease.
- Under certain conditions conducive to extended infection periods, use another registered fungicide for additional applications if the maximum amount of product has been applied.
- The active ingredients in this product may have effects on federally listed threatened and endangered species or critical habitat in some counties. When using this product, you must follow the measures contained in the County Bulletin for the county in which you are applying the pesticide. To determine whether your County has a Bulletin consult [www.epa.gov/espp/bulletins.htm](http://www.epa.gov/espp/bulletins.htm). Bulletins also may be available from local pesticide dealers, extension offices, or State pesticide agencies.

### Limitations, Restrictions, and Exceptions

### Application Timing

For maximum performance, apply prior to disease development.

For control of Rust, depending on the conditions, apply at R1 (beginning flowering, approximately 50 days after planting) up to the R6 stage (seed fully developed). Repeat at 14- to 28-day interval if conditions persist for rust development.

#### Use Directions

Applications may be made by ground, air or chemigation.

A spreading/penetrator type adjuvant is recommended when used solo or in tank mix.

Coverage and penetration are important for best results. Use sufficient water volume to provide thorough and uniform plant coverage.

For control of Rust while plants are in vegetative stages of growth, use the 2.75 oz/A rate.

For rust control when the plants are in reproductive stages of growth use the 5.5 oz/A rate.

For all other diseases, apply a minimum of 4 fl oz/A based on conditions and disease pressure.

Tank mixes with a strobilurin fungicide such as Quadris will enhance performance on these diseases.

#### Resistance Management:

- Refer to Section 3.1 of the label.
- Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population.

#### USE RESTRICTIONS

- Refer to Section 6.1 for additional product use restrictions.
- Minimum Application Interval: 14 days

- DO NOT use soybean forage or hay as livestock feed if making more than one application at 5.5 fl oz product/A.
- DO NOT graze forage within 14 days of an application

#### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

#### Pre-Harvest Interval

30 days

#### Rates

[field\\_rates 0](#)

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#### Restricted Entry Interval

12 hours

#### Timings

[Prior to disease development.](#)