

# **FOR COMMERCIAL SEED TREATMENT - WHEAT BARLEY OATS, RYE, TRITICALE**

## General Information

### APPLICATION INSTRUCTIONS

S-Cloprid 4 AG is a flowable insecticide for the control and suppression of a variety of listed insect pests. S-Cloprid 4 AG may be applied as a soil treatment to cotton, tobacco, cucurbit vegetables, greenhouse vegetables, head, stem and brassica vegetables, leafy vegetables, legume vegetables, root and tuberous vegetables, strawberries, sugarbeets, bushberries, citrus, grapes, hops, pome fruit, stone fruit, tropical fruit, tree nuts, and other listed crops. S-Cloprid 4 AG may also be applied as a foliar treatment on cotton, soybeans, tobacco, leafy vegetables, fruiting vegetables, legume vegetables, root vegetables, tuberous and corm vegetables, strawberries, bushberries, bananas and plantains, pome fruits, citrus, grapes, stone fruits, tropical fruits, pomegranates, coffee, hops, Christmas trees, and tree nuts, and as a seed piece treatment for potatoes.

Do not apply more than 0.5 lb. active ingredient per acre per crop season regardless of formulation or method of application, unless specified within a crop-specific application section for a given crop.

### Resistance Management

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area.

S-Cloprid 4 AG contains a Group 4A insecticide. Insect biotypes with acquired or inherent tolerance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species. This may eventually result in partial or total loss of control of those species by S-Cloprid 4 AG and to other Group 4A insecticides.

The active ingredient in S-Cloprid 4 AG is a member of the neonicotinoid chemical class. Insect pests resistant to other chemical classes have not shown cross-

resistance to S-Cloprid 4 AG. In order to maintain susceptibility to this class of chemistry in insect species with high resistance development potential, it is recommended that for each crop season: 1) only a single, soil application of S-Cloprid 4 AG be made; 2) foliar applications of products from the same class not be made following a long residual, soil application of S-Cloprid 4 AG, or other neonicotinoid products.

If a soil application of S-Cloprid 4 AG has not been made during a crop season and foliar applications are to be made, avoid using a block of more than three consecutive applications of S-Cloprid 4 AG and/or other Group 4A products having the same or similar mode of action. Following a neonicotinoid block of treatments, Direct Ag Source, LLC strongly encourages the rotation to a block of applications with effective products with a different mode of action before using additional applications of neonicotinoid products. Using a block rotation or windowed approach, along with other IPM practices, is considered an effective use strategy for preventing or delaying an insect's ability to develop resistance to this class of chemistry.

Do not use foliar applications of S-Cloprid 4 AG or other Group 4A products from the neonicotinoid chemical class on crops previously treated with a long-residual, soil-applied products from the neonicotinoid chemical class.

Other Group 4A, neonicotinoid products used as foliar treatments include: Actara, Assail, Calypso, Centric, Clutch, Couraze, Galiant, Impulse, Intruder, Leverage, Nuprid, Pasada, Provado, Trimax Pro, and Venom.

Other Group 4A, neonicotinoid products used as soil/seed treatments include Admire Pro, Advise, Alias, Belay, Couraze, Cruiser, Gaucho, Macho, Macho Max, Nuprid, Platinum, Venom, and Widow.

Contact your Cooperative Extension specialist, certified crop advisor, and/or product manufacturer for additional insect resistance management recommendations. Also, for more information on Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irc-online.org/>.

Limitations, Restrictions, and Exceptions

SEED TREATMENT

S-Cloprid 4 AG may be used as a seed treatment insecticide that protects the labeled seeds and seedlings from injury from certain early-season insects. S-CLOPRID 4 AG will also provide protection to seed in storage against damage from certain insects. Federal regulations have established official tolerances for pesticide residues. In order that residues on food and forage crops will not exceed established tolerances, use this product only at the rates contained on the label.

S-CLOPRID 4 AG is formulated for both commercial and (for specific crops) agricultural establishment (on-farm) application. See below for Seed Treatment directions by crop, for application details. S-CLOPRID 4 AG may be applied with mechanical, slurry, or mist-type seed treating equipment, provided that the equipment is calibrated to accurately and uniformly apply the product to seed. Uniform application to seed is necessary to ensure best insect protection and optimum performance. Only sound and well-cured seed are to be treated. Refer to the application instructions below for label rates and application details. S-CLOPRID 4 AG will treat similarly to other concentrated imidacloprid seed treatment formulations. The specific treating process and equipment that is most suitable depend on factors such as the seed type, rate, treater type and temperature. Contact your local Direct Ag Source representative or supplier for specific recommendations if assistance is required.

**Seed Dye or Colorant:** The purchaser of this product is responsible for ensuring that all seed treated with this product are adequately dyed with a suitable color to prevent its accidental use as food for man or feed for animals. Refer to 21 CFR, Part 2.25. Any dye or colorant added to treated seed must be cleared for use under 40 CFR, Part 153.155.

**SEED TREATMENT FOR EARLY SEASON PROTECTION AGAINST CERTAIN SUCKING INSECTSS-CLOPRID 4 AG** will aid in the early season protection of seeds and seedlings against injury by certain insects. S-CLOPRID 4 AG kills listed pests which may vector certain viruses.

**For Commercial Seed Treatment:** S-CLOPRID 4 AG may be applied with mechanical, slurry, or mist-type seed treating equipment, provided that the equipment is calibrated to accurately and uniformly apply the product to seed. For maximum effectiveness, seed must be treated uniformly and covered thoroughly.

**Restriction:** DO NOT feed or graze livestock on treated areas for 45 days after

planting.

## Comments

Provides early season protection of seedlings.

Reduces possible spread of barley yellow dwarf virus disease from aphid vectoring.

Use the higher rate to increase time of protection and/or when insect pressure is heavy.

## Method

[Seed Treatment](#)

## Rates

[field rates 0](#)

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## Restricted Entry Interval

12 hours

Exception: If the product is soil injected or soil incorporated, or once the treated seed is planted in soil or other planting media, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

## Timings

[N.A.](#)