

ARTECT™ FI

A seed treatment product providing systemic seed and seedling protection against listed early season cereal diseases and wireworm.

ACTIVE INGREDIENTS:	By Wt
Clothianidin ¹	2.81%
Ethaboxam ²	1.40%
Metaxalyl ³	0.84%
Metconazole ⁴	0.42%
Other Ingredients	94.53%
Total	100.00%

¹ (E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine

² (RS)-N-(α-cyano-2-thenyl)-4-ethyl-2-(ethylamino)-1,3-thiazole-5-carboxamide

³ methyl N-(methoxyacetyl)-N-2,6-xylyl-DL-alaninate

⁴ (1RS,5RS;1RS,5SR)-5-(4-chlorobenzyl)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol

One gallon of Artect™ FI contains 0.246 lb clothianidin, 0.123 lb ethaboxam, 0.074 lb metaxalyl and 0.037 lb metconazole.

EPA Reg. No. 59639-218-48013

EPA Est. 228-IL-20, 39578-TX-10, 5481-ID-10, 5905-GA-10,

6217I-MS-10, 67545-AZ-10, 67997-IA-1, 70815-GA-10, 86555-MO-10

Superscript is first letter of lot number.

NET CONTENTS 260 GALLONS

CAUTION

KEEP OUT OF REACH OF CHILDREN

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

FIRST AID

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.

Call a poison control center or doctor for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **800-892-0099** for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Mixers, loaders, applicators and other handlers (including conducting maintenance and calibration of treater) must wear: long-sleeved shirt, long pants, socks and shoes, and chemical-resistant gloves made out of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride ≥ 14 mils or Viton ≥ 14 mils.

Baggers, bag sewers and bag stackers must wear: long-sleeved shirt, long pants, socks and shoes.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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No person or agent on behalf of CHS Inc. or seller has any authority to make any warranties or representations different from, or in addition to, the sole and exclusive warranty stated in these Terms and Conditions of Sale.

LIMITATION OF LIABILITY, ALLOCATION OF RISK, AND LIMITATION OF REMEDIES

No Guarantee of Yield or Crop Performance, and Recovery Limited to Purchase Price

Crop yield and quality are dependent on many factors beyond CHS Inc.'s and seller's control. These factors include, but are not limited to, weather, agronomic practices, manner of use, soil conditions, presence of other materials, disease, pests, handling, and storage. CHS Inc. and seller do not guarantee or make any warranties regarding yields or crop performance. CHS Inc. and seller do not represent that the product is free from latent defects unknown to CHS Inc. and seller at the time of sale. These are all inherent risks in growing crops, and all risks of nonperformance, reduced performance, and/or crop damage are assumed by the purchaser and the user.

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PURCHASER'S AND/OR USER'S SOLE AND EXCLUSIVE REMEDY, AND CHS INC.'S AND SELLER'S SOLE LIABILITY FOR LOSS OR DAMAGE ARISING FROM THE PURCHASE AND/OR USE OF PRODUCT FROM CHS INC. IS A REFUND OF PURCHASE PRICE OF THE PRODUCT. Purchaser and user acknowledge and agree that limiting any potential recovery to the purchase price of the product is an appropriate allocation of risk between CHS Inc., seller, and the purchaser and/or user given the risks and uncertainties inherent in the agricultural business outside of CHS Inc.'s and seller's control such as weather, agronomic practices, planting, cultivating, harvesting, and marketing decisions. Purchaser and user acknowledge and agree that limiting any potential recovery to the purchase price of the product is reflected in the purchase price of the product, and without this limitation the purchase price of the product would be significantly higher.

PURCHASER AND USER ACKNOWLEDGE AND AGREE THAT IF CHS INC. OR SELLER REFUND THE PURCHASE PRICE OF THE PRODUCT, THE LIMITATION WILL NOT HAVE FAILED OF ITS ESSENTIAL PURPOSE.

These warranty disclaimers, allocation of risk, and limitations are reflected in the price of the product. If the purchaser or user would like a different warranty, allocations of risk, or limitations, which will substantially increase the price of the product, purchaser or user may contact CHS Inc. to discuss different terms and a different product price. If no agreement is reached, then any unopened product can be returned pursuant to the above terms.

PROMPT NOTICE OF CLAIM:

CHS Inc. must have prompt notice of any claim arising from the use of the product so that a timely inspection of the alleged affected product and/or crop can be made. Purchaser or user shall notify CHS Inc. immediately, but in no case later than thirty (30) days after any defect or other basis of such claim is discovered or should

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have been discovered. Failure of the purchaser or user to provide notice to CHS Inc. within thirty (30) days will constitute a waiver, and after such time all claims will be barred.

NO AMENDMENT WITHOUT SIGNED WRITING:

The Terms and Conditions of Sale may not be altered or amended in any way except in writing, and signed by an officer of CHS Inc.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law.

Read and follow the entire label of each product to be used in the tank mix with this product.

RESISTANCE MANAGEMENT

Artect™ FI contains clothianidin which is a neonicotinoid and a Group 4A insecticide. Insect biotypes with acquired resistance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Artect FI or other Group 4A insecticides. CHS Inc., strives to maintain strong stewardship of this product by recommending that its use be coordinated in a planned resistance management strategy program established for the specific crop and area.

Contact your local extension specialist, certified crop advisors and/or manufacturer for insecticide resistance management or IPM recommendations for the specific site and resistant pest problems.

For further information or to report suspected resistance, you may contact your local CHS agronomy representative.

PRECAUTIONS AND RESTRICTIONS

Artect FI is formulated as a ready-to-use seed protectant formulation and must be used only in accordance with specifications on this label utilizing mechanical, slurry, or mist-type seed treating equipment, provided that the equipment can be calibrated to accurately and uniformly apply the product to seed. This product is for commercial seed treatment facilities and for on-farm application.

• Do not use planter box or hopper box when applying product to seeds.

• Always mix product thoroughly before use.

• When tank mixing, it is the pesticide user's responsibility to ensure that all products in the mixtures are registered for the intended use. Users must follow the most restrictive directions and precautionary language of the products in the mixture (for example, first aid from one product, restrictions from another).

As stated by regulations specified in 40 CFR 153.155, all seed treated with Artect FI must be colored with an EPA-approved dye or colorant to visually distinguish seed that is treated with a pesticide. This product contains such dye or colorant. This regulation is necessary to prevent treated seed from accidental use as a food for man or feed for animals.

Seed Quality and Storage of Treated Seed

Seed treatments applied to low vigor or poor quality seed or to mechanically damaged seed may result in loss of seed germination or reduced seedling vigor. To verify seed safety, treat a small portion of seed prior to treatment of an entire seed lot. Utilize standard seed germination methodologies to determine and verify seed safety. Use proper storage conditions for treated seed. Due to seed quality and seed storage conditions beyond the control of CHS Inc., no claims are made to guarantee the germination of carry-over treated seed.

SEED BAG TAG

The Federal Seed Act requires that the container of seed treated with Artect FI containing clothianidin, ethaboxam, metaxalyl and metconazole must be labeled with the following statements:

• This seed has been treated with Artect FI which contains clothianidin, ethaboxam, metaxalyl and metconazole.

• Do not use treated seed for feed, food or oil processing.

In addition, the U.S. Environmental Protection Agency requires the following statements on the container of seed treated with Artect FI:

• Regardless of the type of application (seed treatment, soil or foliar), do not apply more than a total of 3.2 oz (90.7 gram) clothianidin (active ingredient) per acre per year.

• Store away from feeds and other foodstuffs.

• Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practice.

• Wear long-sleeved shirt, long pants and chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils or Viton ≥ 14 mils when handling treated seed.

• Dispose of all excess treated seed. Leftover treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.

• Do not contaminate water bodies when disposing of planting equipment washwaters.

• Treated seeds must be planted at a minimum depth of 0.5 inch.

• This compound is toxic to birds and mammals. Clothianidin-treated seeds exposed on soil surface may be hazardous to birds and mammals. Cover or collect seeds spilled during loading.

• This compound is highly toxic to bees exposed directly (contact). Ensure that planting equipment is functioning properly in accordance with manufacturing recommendations to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds.

• Do not re-use bags from treated seed to handle food or feed products.

• Dispose of seed packaging in accordance with local requirements.

• After seeds have been planted, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. Exception: Once seeds are planted and covered by soil or other planting media, the Worker Protection Standard (WPS) allows workers to enter the treated area without restriction.

• Areas planted with treated seed of barley, oats and wheat may be replanted immediately with bulb vegetables, canola, cereal grains (except rice), cotton, fruiting vegetables (including cucurbits), leafy vegetables (including brassica vegetables), rapeseed, root and tuber vegetables and soybean. These areas may also be replanted after 30 days with dry beans, grasses, non-grass animal feeds and rice. These areas may also be replanted after 8 months with sugarcane. Do not plant any other crop in the treated area for at least one year after these treated seeds are planted.

PRODUCT INFORMATION

Artect FI is a systemic fungicide plus insecticide product formulated for seed treatment use to provide protection against seed-borne and soil-borne diseases and seed protection against wireworm. The fungicide active ingredients in Artect FI are metconazole, a broad-spectrum, systemic, triazole fungicide, metaxalyl, an Oomycete-active, systemic acylalanine fungicide, and ethaboxam, an Oomycete-active systemic fungicide. The fungicide components of Artect FI provide activity against *Pythium* spp., *Rhizoctonia solani*, *Fusarium* spp., and other Deuteromycete and Basidiomycete (smut and bunt) fungi. Clothianidin is a systemic insecticide in Artect FI giving seed protection against wireworm.

MODES OF ACTION

Metaxalyl fungicide contained in Artect FI is a member of the acylalanine chemical group (FRAC Code 4) and interrupts fungal nucleic acid synthesis. Metconazole belongs to the sterol biosynthesis inhibitor group of fungicides (FRAC Code 3). Clothianidin is a neonicotinoid insecticide (IRAC MoA Group 4A) acting as a nicotine acetylcholine receptor agonist/antagonist in insect metabolism. Ethaboxam is a member of the thiazole carboxamide chemical group (FRAC Code 22), and acts by inhibition of cell division.

APPLICATION DIRECTIONS

Accurate application of Artect FI to seed is required for control of pests. Artect FI is ready to use and may be applied directly to seed as formulated. However, to enhance uniform seed coverage, dilution with water may be appropriate for some types of treaters and/or treating seed under dry and/or hot conditions. If so, mix Artect FI and water thoroughly into slurry before treating seed. Recalibrate treating equipment to compensate for the addition of water. The amount of dilution water that is most suitable depends on the seed, treating equipment, and the temperature.

For preparation of product in a slurry mixture with water, use the following guideline:

Artect FI Use Rate	Amount of Water To Be Added To Product	Total Slurry Volume To Apply Per cwt Seed
5.2 fl oz/cwt seed	5.2 - 10.4 fl oz/cwt seed	10.4 - 15.6 fl oz/cwt seed

Use standard slurry or mist-type seed treatment equipment.

The following tables provide use rates of Artect FI by labeled crop, with disease and insect protection guidelines:

BARLEY					
Seed/Seedling Diseases	Insect Pests	Artect FI Use Rate			
		fl oz/100 lb seed	Active Ingredient (mg ai/seed) ¹		
Covered Smut	Wireworm	5.2	Clothianidin (0.00333)		
Loose Smut			Ethaboxam (0.00166)		
Seed Decay Fungi			Metaxalyl (0.001)		
Fusarium Seed Scab			Metconazole (0.00049)		
Pythium Seed Rot and Seedling Dieback					
Early Season Fusarium Seedling Dieback					
Early Season Rhizoctonia Root Rot					
Early Season Common Root Rot					
Regardless of type of application (seed treatment, soil or foliar), do not apply more than a total of 3.2 oz (90.7 gram) active ingredient clothianidin per acre per year.					

¹ mg active ingredient per seed is based on 13,605 seeds per pound.

OATS					
Seed/Seedling Diseases	Insect Pests	Artect FI Use Rate			
		fl oz/100 lb seed	Active Ingredient (mg ai/seed) ¹		
Loose Smut	Wireworm	5.2	Clothianidin (0.00238)		
Seed Decay Fungi			Ethaboxam (0.00119)		
Fusarium Seed Scab			Metaxalyl (0.00072)		
Pythium Seed Rot and Seedling Dieback			Metconazole (0.00035)		
Early Season Fusarium Seedling Dieback					
Early Season Rhizoctonia Root Rot					
Early Season Common Root Rot					
Regardless of type of application (seed treatment, soil or foliar), do not apply more than a total of 3.2 oz (90.7 gram) active ingredient clothianidin per acre per year.					

¹ mg active ingredient per seed is based on 19,047 seeds per pound.

WHEAT			
Seed/Seedling Diseases	Insect Pests	Artect FI Use Rate	
		fl oz/100 lb seed	Active Ingredient (mg ai/seed) ¹
Common Bunt	Wireworm	5.2	Clothianidin (0.004)
Flag Smut			Ethaboxam (0.002)
Loose Smut			Metaxalyl (0.0012)
Seed Decay Fungi			Metconazole (0.00059)
Fusarium Seed Scab			
Pythium Seed Rot and Seedling Dieback			
Early Season Fusarium Seedling Dieback			
Early Season Rhizoctonia Root Rot			
Early Season Common Root Rot			
Regardless of type of application (seed treatment, soil or foliar), do not apply more than a total of 3.2 oz (90.7 gram) active ingredient clothianidin per acre per year.			

¹ mg active ingredient per seed is based on 11,338 seeds per pound.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

PESTICIDE STORAGE

Store in a dry place away from excessive heat. Do not store near food or feed. Store in original container only. Not for use or storage around the home. To close package, replace and tighten cap to form an airtight seal.

PESTICIDE DISPOSAL

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or by incineration, if allowed by state and local authorities.

RECYCLING

Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact the Ag Container Recycling Council (ACRC) at 877-952-2272 (toll free) or www.acrecycle.org.

Form 2353-C

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