

GROUP

4A

INSECTICIDE



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%
Metalaxyl 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

³methyl 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 INTEGO® SUITE Cereals OF contains 0.246 lb clothianidin, 0.123 lb ethaboxam, 0.074 lb metalaxyl and 0.037 lb metconazole.

EPA Reg. No. 59639-218

EPA Est. 228-IL-2[Ⓐ], 39578-TX-1[Ⓔ], 5481-ID-1[Ⓜ],
5905-GA-1[Ⓒ], 61842-CA-1[Ⓔ], 62171-MS-1[Ⓓ],
67545-AZ-1[Ⓕ], 67997-IA-1[Ⓓ], 70815-GA-1[Ⓥ],
86555-MO-1[Ⓢ]

Superscript is first letter of lot number.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates, oysters and shrimp. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. Do not apply where runoff is likely to occur. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Apply this product only as specified on label.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Treated seed exposed on soil surface maybe hazardous to birds. Cover or collect spilled seeds.

Metalaxyl has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow. Therefore, contain any product spills or equipment leaks and dispose of waste according to the disposal instructions on this label.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the **restricted entry interval (REI) of 24 hours**.

Exception: Once the seeds are planted in soil, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area without restriction if there will be no worker contact with the soil subsurface or treated seed. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, natural rubber \geq 14 mils, polyethylene, polyvinyl chloride (PVC) \geq 14 mils or Viton \geq 14 mils, socks and shoes.

DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

ASSUMPTION OF RISK

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests to this product. Such risks of crop injury, non-performance, or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label **and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR**

(continued)

(continued)

IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is later, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability**, which may not be modified by any oral or written agreement.

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

INTEGO SUITE Cereals OF 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 *INTEGO SUITE Cereals OF* or other Group 4A insecticides. Valent U.S.A. LLC 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 Valent U.S.A. LLC at 800-682-5368.

PRECAUTIONS AND RESTRICTIONS

INTEGO SUITE Cereals OF 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 *INTEGO SUITE Cereals OF* 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 Valent

U.S.A. LLC, 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 *INTEGO SUITE Cereals OF* containing clothianidin, ethaboxam, metalaxyl and metconazole must be labeled with the following statements:

- This seed has been treated with *INTEGO SUITE Cereals OF* which contains clothianidin, ethaboxam, metalaxyl 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 *INTEGO SUITE Cereals OF* Seed Protectant:

- 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 live-stock 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 \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, natural rubber \geq 14 mils, polyethylene, polyvinyl chloride (PVC) \geq 14 mils or Viton \geq 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

INTEGO SUITE Cereals OF 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 *INTEGO SUITE Cereals OF* are metconazole, a broad-spectrum, systemic, triazole fungicide, metalaxyl, an Oomycete-active, systemic acylalanine fungicide, and ethaboxam, an Oomycete-active systemic fungicide. The fungicide components of *INTEGO SUITE Cereals OF* provide activity against *Pythium* spp., *Rhizoctonia solani*, *Fusarium* spp., and other Deuteromycete and Basidiomycete (smut and bunt) fungi. Clothianidin is a systemic insecticide in *INTEGO SUITE Cereals OF* giving seed protection against wireworm.

MODES OF ACTION

Metalaxyl fungicide contained in *INTEGO SUITE Cereals OF* 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 *INTEGO SUITE Cereals OF* to seed is required for control of pests. *INTEGO SUITE Cereals OF* 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 *INTEGO SUITE Cereals OF* 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:

INTEGO SUITE Cereals OF 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 *INTEGO SUITE Cereals OF* by labeled crop, with disease and insect protection guidelines:

BARLEY			
Seed/Seedling Diseases	Insect Pests	INTEGO SUITE Cereals OF Use Rate	
		fl oz/ 100 lb seed	Active Ingredient (mg ai/seed)¹
Covered Smut Loose Smut Seed Decay Fungi Fusarium Seed Scab Pythium Seed Rot and Seedling Dieback Early Season Fusarium Seedling Dieback Early Season Rhizoctonia Root Rot Early Season Common Root Rot	Wireworm	5.2	Clothianidin (0.00333) Ethaboxam (0.00166) Metalaxyl (0.001) Metconazole (0.00049)
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.			

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

OATS			
Seed/Seedling Diseases	Insect Pests	INTEGO SUITE Cereals OF Use Rate	
		fl oz/ 100 lb seed	Active Ingredient (mg ai/seed)¹
Loose Smut Seed Decay Fungi Fusarium Seed Scab Pythium Seed Rot and Seedling Dieback Early Season Fusarium Seedling Dieback Early Season Rhizoctonia Root Rot Early Season Common Root Rot	Wireworm	5.2	Clothianidin (0.00238) Ethaboxam (0.00119) Metalaxyl (0.00072) Metconazole (0.00035)
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.			

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

WHEAT			
Seed/Seedling Diseases	Insect Pests	INTEGO SUITE Cereals OF Use Rate	
		fl oz/ 100 lb seed	Active Ingredient (mg ai/seed)¹
Common Bunt Flag Smut Loose Smut Seed Decay Fungi Fusarium Seed Scab Pythium Seed Rot and Seedling Dieback Early Season Fusarium Seedling Dieback Early Season Rhizoctonia Root Rot Early Season Common Root Rot	Wireworm	5.2	Clothianidin (0.004) Ethaboxam (0.002) Metalaxyl (0.0012) Metconazole (0.00059)
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.			

¹mg 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 and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. 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.

INTEGO and *Products That Work, From People Who Care* are registered trademarks of Valent U.S.A. LLC.

Manufactured For:

Valent U.S.A. LLC

P. O. Box 8025

Walnut Creek CA 94596-8025

Made in U.S.A.

Form 2199-A

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Superscript is first letter of lot number.

Information contained in this booklet is accurate at the time of printing. Since product testing is a continuous process, please read and follow the directions on the product label for the most current directions and precautionary statements.

Always check with your state to verify state registration status or call 800-6-VALENT (682-5368).



For state registration and/or supplemental labels, please call or visit us online.

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Always read and follow label instructions.

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