PULL HERE TO OPEN

Adage™

INSECTICIDE

A seed treatment product for protection against damage from, or control of, listed insects on alfalfa, cereal grains (including barley, buckwheat, corn, pearl millet, proso millet, oats, popcorn, rice (dry-seeded), rye, sorghum, teosinte, triticale, wheat and wild rice), cotton, cucurbit vegetables, legume vegetables (including soybean), oilseed crops (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard seed, Indian rapeseed seed, rapeseed seed, and safflower seed), peanuts, potatoes, sugarbeets, and sunflower

Active Ingredient:	
Thiamethoxam[1]	47.6%
Other Ingredients:	52.4%
Total:	100.0%

[1]*CAS No. 153719-23-4*

Adage is a flowable seed treatment containing 5 pounds thiamethoxam per gallon.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-941
EPA Est. 100-NE-001

SCP 941C-L3 0212
4187205

15 gallons

Net Contents

FIRST AID	
If inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
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 eye. • Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOTLINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call **1-800-888-8372**	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if inhaled, swallowed, or absorbed through the skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse.

Personal Protective Equipment (PPE)

Applicators, Other Handlers and Re-entry Workers Must Wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material - Category A (e.g., natural rubber ≥ 14 mils)
- Shoes plus socks

Multiple Task Workers must wear:

(Multiple task workers perform multiple tasks in one day such as mixing, bagging/filling seed containers, product application, bag sewing, and clean up)

- Chemical resistant gloves
- Chemical-resistant coveralls over long sleeved shirt and long pants
- Shoes plus socks

continued…

PRECAUTIONARY STATEMENTS *(continued)*

User Safety Requirements

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

Engineering Control Statements

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash thoroughly with soap and water after handling.
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing 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 wildlife and highly toxic to aquatic invertebrates. Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops. Do not contaminate water when disposing of equipment wash water.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND 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 THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

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

Adage may be applied by closed or open system seed treatment application processes. **DO NOT** apply more than 215 gallons of Adage per 8-hour day for seed treatments utilizing a closed system. **DO NOT** apply more than 38 gallons of Adage per 8-hour day for seed treatments utilizing an open system.

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 12 hours. Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, 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.

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:

- Coveralls
- Chemical-resistant gloves made of any waterproof material - Category A (e.g., natural rubber ≥ 14 mils)
- Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT AND/OR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigor and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed and seedling vigor. Treat a small quantity of seed using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of seed before committing the total seed lot to a selected seed treatment. Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of Syngenta, no claims are made to guarantee the germination of carry-over seed or propagating material for all crop seed.

USE INFORMATION

Adage is a systemic seed treatment insecticide belonging to the neonicotinoid class of chemistry. Adage controls certain chewing and sucking insects through contact and ingestion. The plant rapidly takes up the active ingredient in Adage as it starts to emerge and establish. The use of Adage is compatible with integrated pest management programs. The length of control of the major insect pests will vary depending on the product use rate, insect pressure, crop growth and maturity, and soil and environmental conditions. When rate ranges are given, use the higher rate when insect pressure is expected to be high.

Resistance Management

Some insect pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. Syngenta encourages responsible product stewardship to ensure effective long-term control of the insects on this label.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

Adage contains a Group 4A insecticide (thiamethoxam, belonging to the neonicotinoid class of chemistry). Insect biotypes with acquired or inherent resistance 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 result in partial or total loss of control of those species by Adage or other Group 4A insecticides.

In order to maintain susceptibility to this class of chemistry:

- Avoid using Group 4A insecticides exclusively for season-long control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, apply Adage or other Group 4A insecticides using a "treatment window" approach. A treatment window is a period of time as defined by the stage of crop development and/or the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, there may either be single or consecutive applications (seed treatment, soil, foliar, unless otherwise stated) of the Group 4A insecticides. Do not exceed the maximum Adage allowed per growing season.
- Following a treatment window of Group 4A insecticides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 4A insecticides.
- A treatment window rotation, along with other IPM practices for the crop and use area, is considered an effective strategy for preventing or delaying a pest's ability to develop resistance to this class of chemistry.
- If resistance is suspected, do not reapply Adage or any other Group 4A insecticides.

Other Insect Resistance Management (IRM) practices include:

- Incorporating IPM techniques into your insect control program.
- Monitoring treated insect populations for loss of field efficacy.
- Using tank-mixtures or premixes with insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

For additional information on Insect Resistance Management:

- Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: http://www.irac-online.org/.

Use Restrictions

Adage may be applied by closed or open system seed treatment application processes. **DO NOT** apply more than 215 gallons of Adage per 8-hour day for seed treatments utilizing a closed system. **DO NOT** apply more than 38 gallons of Adage per 8-hour day for seed treatments utilizing an open system.

Commercial treatment of sorghum seed requires the use of a closed system.

MIXING PROCEDURES

Important: Thoroughly shake the container of Adage prior to use.

Apply Adage as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of insect or disease control. Thoroughly mix the specified amount of Adage into the required amount of water for the slurry treater and dilution rate to be used. The typical density of Adage is 10.5 pounds per gallon. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment.

- Use an EPA-approved dye or colorant that imparts an unnatural color to the seed as stated in 40 CFR 153.155 (c).
- Allow seed to dry before bagging.
- Store away from feed and foodstuffs.

Adage has been found to be compatible with some liquid inoculant products. Adage may be mixed or applied sequentially with approved liquid inoculants. Consult the maker of the liquid inoculants and a Syngenta Crop Protection representative for directions before applying Adage with inoculants.

SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with thiamethoxam insecticide.
- Do not use for feed, food or oil purposes.
- 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 for agronomic practice.
- User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with Adage (thiamethoxam):

- **Ground Water Advisory:** This product has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.
- **Pollinator Precautions:** Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops. To mitigate this potential exposure, the first cutting of alfalfa should occur before bloom.
- Store away from food and feedstuffs.
- Wear long-sleeved shirt, long pants and chemical-resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Dispose of seed packaging in accordance with local requirements.
- In the event of crop failure or harvest of a crop grown from Adage-treated seed, the field may be replanted immediately to alfalfa, *Brassica* (cole) leafy vegetables, cereal grains (including barley, buckwheat, corn, pearl millet, proso millet, oats, popcorn, rice (dry-seeded), rye, sorghum, teosinte, triticale, wheat and wild rice), canola, cotton, cucurbit vegetables, dry bulb onions, fruiting vegetables, leafy vegetables, legume vegetables, mint (peppermint and spearmint), oil seed crops (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard seed, Indian rapeseed seed, peanuts; rapeseed seed, and safflower seed), root vegetables, strawberry, sunflowers, tobacco, and tuberous and corm vegetables. For any other crop, the minimum plant back interval is 120 days from the date the Adage-treated seed was planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120-day interval; however, the crop may not be grazed or harvested for food or feed.
- Do not allow children, pets, or livestock to have access to treated seed.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- 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.
- With the exception of cotton and soybeans, do not make any soil or foliar application of products containing thiamethoxam to crops grown from seed treated with Adage (thiamethoxam). For cotton and soybeans, do not apply a neonicotinoid insecticide within 45 days of planting seed treated with Adage.
- For alfalfa: Do not use at a rate that will result in more than 0.022 lb thiamethoxam per acre (10.0 grams ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.
- For barley: Do not use at a rate that will result in more than 0.052 lb thiamethoxam per acre (23.6 g ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.
- For buckwheat, pearl millet, proso millet, oats, rye, teosinte, triticale, and wild rice: Do not use at a rate that will result in more than 0.04 lb thiamethoxam per acre (18.4 g ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.
- For corn: Do not use at a rate that will result in more than 0.165 lb thiamethoxam per acre (74.8 g ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.

- For cotton: Do not use at a rate that will result in more than 0.075 lb thiamethoxam per acre (34.0 g ai/A) as a seed treatment application. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.
- For cucurbit vegetables (based on pickling cucumbers seeding rate): Do not use at a rate that will result in more than 0.164 lb thiamethoxam per acre (74.4 g ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.
- For legume vegetables (other than soybeans): Do not use at a rate that will result in more than 0.075 lb thiamethoxam per acre (34.0 g ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.
- For oil seed crops (based on safflower seeding rate): Do not use at a rate that will result in more than 0.14 lb thiamethoxam per acre (63.5 g ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.
- For peanuts: Do not use at a rate that will result in more than 0.08 lb thiamethoxam per acre (35.0 g ai/A) per season. This seed has been treated with thiamethoxam at __x__ mg ai/seed.
- For potatoes: Do not use at a rate that will result in more than 0.125 lb thiamethoxam per acre (56.7 g ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.
- For rice (dry seeded): Do not use at a rate that will result in more than 0.17 lb thiamethoxam per acre (75.6 g ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed. Not for use in water seeded rice production. Do not plant or sow Adage-treated rice seed by aerial application equipment. Do not use treated fields for the aquaculture of edible fish and crustacean.
- For sorghum: Do not use at a rate that will result in more than 0.03 lb thiamethoxam per acre (13.5 g ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.
- For soybeans: Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 g ai/A) as a seed treatment application. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.
- For sugarbeets: Do not use at a rate that will result in more than 0.206 lb thiamethoxam per acre (93.4 g ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.
- For sunflower: Do not use at a rate that will result in more than 0.14 lb thiamethoxam per acre (63.5 g ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.
- For wheat: Do not use at a rate that will result in more than 0.08 lb thiamethoxam per acre (36.3 g ai/A) per season. This seed has been treated with thiamethoxam at ___x__ mg ai/seed.

Sunflower Seed Bags Only:

- To protect the Preble's Meadow Jumping Mouse, sunflower seed treated with Adage may not be planted in Elbert or Weld Counties in Colorado. Treated sunflower seed must be planted at a minimum depth of one inch.

CROP USE DIRECTIONS

ALFALFA

Adage seed treatment will protect young alfalfa seedlings from damage caused by aphids and leaf hoppers for the first cut crop only. Apply Adage at 0.001 milligrams thiamethoxam per seed* (each fluid ounce of Adage contains 17.7 grams of thiamethoxam).

*Based on an average of 210,000 alfalfa seeds per pound.

It is highly recommended to use Adage with compatible and registered seed treatment fungicides proven to provide seed and seedlings against diseases. These fungicides must show safety on treated seed, alone or in combination with Adage.

Restrictions:

Do not use an Adage rate that will result in more than 0.022 lb thiamethoxam per acre (10 grams ai/A) per season.

Apply Adage to alfalfa seed in commercial seed treatment facilities only. Do not use in hopper box, slurry box, or other farmer-applied applications.

CEREALS GRAINS (barley, buckwheat, corn, pearl millet, proso millet, oats, popcorn, rice (dry-seeded), rye, sorghum, teosinte, triticale, wheat and wild rice)

Barley

To provide early season protection of seedlings against injury by bird cherry-oat aphids, English grain aphid, green-bug, Hessian fly, Russian wheat aphid, and wireworm, and to reduce potential spread of barley yellow dwarf virus due to aphid vectors, apply Adage at 0.75-1.33 fluid ounces per 100 pounds of seed. At the high rate, Adage will reduce grasshopper damage in barley during the early season. For early season wireworm protection, apply Adage at 0.19 to 0.50 fluid ounces per 100 pounds of seed.

To provide protection of barley seed against damage from stored grain pests, rusty grain beetle, saw-toothed grain beetle, red flour beetle, rice weevil, lesser grain borer, European corn borer and Indian moth, apply Adage at 0.025–1.33 fluid ounces per 100 pounds of seed.

Corn (Field, Pop, Seed and Sweet Corn)

Note: If corn seed to be treated with Adage has existing infestations of stored grain pests, fumigate the seed with a registered product approved for such use prior to treating with Adage and bagging.

Note: When treated according to the following directions for post-planting protection against listed pests, Adage will also provide protection during post treatment storage of the seed against damage from the following insects: Indian Meal Moth (*Plodia interpunctella*), Lesser Grain Borer (*Rhyzopertha dominica*), Red Flour Beetle (*Tribolium castaneum*), and Rice Weevil (*Sitophilus oryza*).

Consult your Syngenta Seed Treatment representative for specifics on slurry additives to use during application of Adage.

Follow planter manufacturer instructions for use of talc, graphite, or other hopper-box additives at planting.

It is highly recommended to use registered seed treatment fungicides such as Apron XL®, Dynasty® and Maxim® XL as the broad-spectrum seed treatment fungicide with Adage applications on corn.

To provide early-season protection of seedlings against injury by wireworm, seedcorn maggot, southern corn leaf beetle, chinch bug, corn flea beetle, grape colaspis, white grub (including Japanese beetle larvae, European Chafer larvae, true white grub, annual white grub, May/June beetle larvae), black cutworm, thrips, southern green stink-bug, seedcorn beetle, sugarcane beetle, and corn leaf aphid, apply Adage at a rate to achieve between 0.250 and 0.80 milligrams thiamethoxam per kernel (each fluid ounce of Adage contains 17.7 grams thiamethoxam).

To provide corn rootworm (including Mexican, Northern, Southern, and Western corn rootworm) and billbug protection, apply Adage at a rate to achieve 1.25 milligrams thiamethoxam per kernel (each fluid ounce of Adage contains 17.7 grams thiamethoxam).

Restrictions:

For field, pop, seed and sweet corn, do not use an Adage rate that will result in more than 0.21 lb thiamethoxam per acre (93.75 grams ai/A) based on a maximum seeding rate for sweet corn of 75,000 seeds/acre.
DO NOT apply more than 215 gallons per 8-hour day for seed treatments utilizing a closed system. DO NOT apply more than 38 gallons of Adage per 8-hour day for seed treatments utilizing an open system. If it is necessary to apply more than 38 gallons of Adage per 8-hour day, a closed system must be used.

Rice (dry-seeded use only)

To provide early-season protection of seedlings against injury by grape colaspis, rice water weevil, chinch bugs, and thrips, apply Adage at a rate to achieve 0.03 milligrams thiamethoxam per seed* (each fluid ounce of Adage contains 17.7 grams thiamethoxam).

Adage is not labeled for use in water-seeded rice production.
Do not plant or sow Adage treated rice seed by aerial application equipment.
Do not use treated fields for the aquaculture of edible fish and crustacean.

*Not to exceed 120 lb seed/Acre seeding rate.

Buckwheat, Pearl Millet, Proso Millet, Oats, Rye, Teosinte, Triticale, and Wild Rice

To provide early-season protection of seedlings against injury by bird cherry-oat aphids, English grain aphid, greenbug, Hessian fly, Russian wheat aphid, and wireworm, and to reduce potential spread of barley yellow dwarf virus due to aphid vectors, apply Adage at 0.75-1.33 fluid ounces per 100 pounds of seed. At the high rate, Adage will reduce grasshopper damage during the early season. For early-season wireworm protection, apply Adage at 0.19 to 0.50 fluid ounces per 100 pounds of seed.

Sorghum

To provide early-season protection of seedlings against injury by chinch bug, corn leaf aphid, fire ants, greenbug, seed-corn maggot, stored-grain insects, wireworm, and yellow sugarcane aphid, apply Adage at 5.1 to 7.6 fluid ounces per 100 pounds of seed, or 0.062 to 0.093 milligrams thiamethoxam per seed* (each fluid ounce of Adage contains 17.7 grams of thiamethoxam).

*Based on an average of 14,500 sorghum seeds per pound.

Follow planter manufacturer instructions for use of talc or other hopper box additives at planting.
A closed system must be used for commercial treatment of sorghum seed.

Wheat

To provide early-season protection of seedlings against injury by bird cherry-oat aphids, English grain aphid, greenbug, Hessian fly, and Russian wheat aphid, and to reduce potential spread of barley yellow dwarf virus due to aphid vectors, apply Adage at 0.75-1.33 fluid ounces per 100 pounds of seed. At the high rate, Adage will reduce grasshopper damage in wheat during the early season. For early-season wireworm protection, apply Adage at 0.19 to 0.50 fluid ounces per 100 pounds of seed.

To provide protection of wheat seed against damage from stored-grain pests, rusty grain beetle, saw-toothed grain beetle, red flour beetle, rice weevil, lesser grain borer, European corn borer and Indian moth, apply Adage at 0.025 – 1.33 fluid ounces per 100 pounds of seed.

COTTON (Delinted Only)

To provide early season protection of seedlings against injury by cotton aphid, tobacco thrips, western flower thrips, wireworm, and the suppression of cotton fleahopper and plant bugs, apply Adage at a rate to achieve between 0.300 and 0.375 milligrams thiamethoxam per seed (each fluid ounce of Adage contains 17.7 grams thiamethoxam).

Plant Adage-treated cotton seed based on specified planting dates and soil temperatures made by your state agricultural extension agent. In areas that have a history of high thrips pressure or when cotton is grown in North Carolina or Virginia, use Adage seed treatment followed by a foliar insecticide spray when cotton is between the 1st and 3rd leaf stage.

Do not apply a neonicotinoid insecticide within 45 days of planting seed treated with Adage.

CUCURBIT VEGETABLE GROUP

Chayote
Chinese Waxgourd
Citron Melon
Cucumber
Gherkin
Edible Gourd (includes hyotan, cucuzza, Chinese Okra, and hechima)
***Momordica* spp.** (includes balsam apple, balsam pear, bitter melon, Chinese cucumber)
Muskmelon (includes true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon)
Pumpkin
Summer Squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, and zucchini)
Winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash and spaghetti squash)
Watermelon

To provide early-season protection of seedlings against injury by aphids, cucumber beetle, flea beetle, leafminers, seedcorn maggots, white fly and wireworms, apply Adage at a rate to achieve between 0.25 to 0.75 milligrams thiamethoxam per seed* (each fluid ounce of Adage contains 17.7 grams of thiamethoxam).

*Based on an average range of 4,000 to 27,000 cucurbit seeds per pound.

LEGUME VEGETABLE GROUP

Bean (*Lupinus* species) (includes grain, sweet, white, white sweet lupin).
Bean (*Phaseolus* species) (includes field bean, kidney bean, lima bean, navy bean, runner bean, snap bean, tepary bean, wax bean)
Bean (*Vigna* species) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean)
Broad bean (fava bean)
Chickpea (garbanzo bean)
Guar
Jackbean
Lablab bean (hyacinth bean)
Lentil
Pea (*Pisum* species) (includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea)
Pigeon pea
Sword bean

To provide early-season protection of seedlings against injury by aphids, bean leaf beetle, leafhoppers, leaf miner, Mexican bean beetle, pea leaf weevil, plant leaf hopper, seed-corn maggot, thrips, white grub and wireworm, apply Adage at 1.28 fluid ounces per 100 pounds of seed.

It is highly recommended to use Adage with compatible and registered seed treatment fungicides proven to control seed and seedling diseases. These fungicides must show safety on treated seed, alone and in combination with Adage.

Soybeans (including soybeans, vegetable)

To provide early-season protection of seedlings against injury by aphids, bean leaf beetle, grape colaspis, leafhoppers, seedcorn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm, apply Adage at 1.28 fluid ounces per 100 pounds of seed. Alternatively, for those who wish to treat on a milligram per seed basis, apply 0.0756 to 0.1512 mg ai per seed.

It is highly recommended to use Adage with compatible and registered seed treatment fungicides, like Apron XL and Maxim or ApronMAXX® brand formulations, proven to control seed and seedling diseases. These fungicides must show safety on treated seed, alone and in combination with Adage.

Do not apply a neonicotinoid insecticide within 45 days of planting seed treated with Adage.

OIL SEED CROPS (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard seed, Indian rapeseed seed, rapeseed seed, and safflower seed)

To provide early-season protection of seedlings against injury by crucifer flea beetles and wireworms, apply Adage at 10.24 fluid ounces per 100 pounds of seed.

It is highly recommended to use Adage with compatible and registered seed treatment fungicides proven to control seed and seedling diseases. These fungicides must show safety on treated seed, alone and in combination with Adage.

PEANUTS

To provide early-season protection of seedlings against injury by thrips, aphids, wireworm, and white grubs, and the suppression of three-cornered alfalfa hopper and plant bugs, apply Adage at 0.20 to 0.29 mg thiamethoxam per seed (each fluid ounce of Adage contains 17.7 grams thiamethoxam).

It is highly recommended to use Adage with compatible and registered seed treatment fungicides, like Dynasty PD, proven to control seed and seedling diseases. These fungicides must show safety on treated seed, alone and in combination with Adage.

Plant Adage-treated peanuts based on specified planting dates and soil temperatures made by your state agricultural extension agent.

Restrictions:

Do not use an Adage rate that will result in more than 0.08 lb thiamethoxam per acre (35.0 grams ai/A) per season, based on a maximum seeding rate of 120,700 seeds/acre.

Do not use in hopper-box, planter-box, slurry-box, or other farmer-applied applications. Apply Adage in commercial seed treatment facilities only.

POTATOES

Note: Do not use this product on potatoes in Nassau or Suffolk County, New York.

Adage potato seed treatment is to be used as an integral part of a potato pest-management strategy. This strategy includes the use of certified seed, proper crop rotation, insect population thresholds, appropriate control measures, optimal harvest time for tubers and proper handling of tubers without bruising. Consult your local agricultural extension agent for more detailed information on insect management practices.

Application Procedure

Apply Adage using only Syngenta-approved equipment that is designed to apply liquid seed-treatment products to potatoes. Follow the equipment instructions for set-up and calibration. Adage may require dilution prior to atomization and application to potatoes (see equipment use instructions). Ensure that spray nozzles are properly hooded and shielded to prevent any spray from moving off target. Apply Adage only in well-ventilated areas. Syngenta Crop Protection will not warranty the field performance of Adage if the application is made through non-Syngenta-approved equipment. The mixture is applied as a fine spray over the cut or whole seed tubers. The quantity of water and Adage volume is adjusted based on the amount of seed moved under the hood. It is mandatory that the equipment be calibrated to deliver a maximum of 4 fluid ounces of the mixture per 100 pounds of seed consistently. Applying excess moisture may predispose the seed to rotting, resulting in poor emergence and stand. Generally, liquid-based fungicides (such as Maxim 4FS), can be applied with Adage; however, check compatibility of the fungicides with Adage before use. If inert dust (fir bark, talc, etc.) or a dust-based fungicide is used, apply the Adage seed treatment before applying the dust.

It is highly recommended to use Adage with compatible and registered seed-treatment fungicides proven to control seed and seedling diseases. These fungicides must show safety on treated seed.

Use Adage seed treatment to provide protection against injury from Colorado potato beetles, flea beetles, green peach aphids, leafhoppers, leafminers, potato aphids, psyllids, and whiteflies. Adage will also control wireworms that feed on the seed piece.

The expected length of protection is dependent upon the rate used, soil and environmental conditions and insect pressure. Select the appropriate Adage rate based upon the history of pest pressure in the region and the length of the growing season. In general, use the high rate of Adage in the following table for areas where high insect pressure is expected. Consult your Syngenta representative for information specific to your area or region.

Choose the appropriate Adage rate from the following chart, based upon your seeding rate:

Potato Seeding Rate: 100 lb per Acre	Fluid Ounces of Adage per 100 lb of Potato Seed Tubers
16-19	0.11-0.16
20-21	0.11-0.15
22-24	0.11-0.13
25-26	0.11-0.12
27-29	0.11

For seeding rates not covered by the above table, do not use an Adage rate that will result in more than 0.125 pounds thiamethoxam per acre.

Treated Seed Storage

If the treated seed needs to be stored or held for a few days, make sure that there is adequate cool air (60°F) movement through the pile of cut seed potatoes at relative humidity of 85-90%. Do not pile cut and treated seeds above 6 feet in height. Best results are obtained if potatoes are planted immediately after Adage seed treatment. When transporting cut and Adage-treated seed, make sure the seed is covered.

SUGARBEETS

Adage is a seed treatment insecticide that provides early-season protection against injury from sugarbeet root maggot, leaf miners, wireworms, root aphids, white grubs, spring tails, and beet leaf hopper. Adage protects sugarbeets from beet leaf hoppers which may spread curly top virus. Thorough seed coverage will offer the best protection of the seed from insect damage.

Apply Adage at 3.39 to 3.95 fl oz (equivalent to 60 to 70 grams ai of thiamethoxam, respectively) per unit of sugarbeet seed. A unit of sugarbeet seed is 100,000 seeds.

For protection against *Pythium* damping-off or *Rhizoctonia* species seed and seedling diseases in sugarbeets, Adage may be applied with Apron XL and Maxim 4FS fungicide seed treatments.

Adage may be applied in conjunction with polymers, pelleting materials and seed coating materials that are approved as food-use inert ingredients by EPA and listed in 40 CFR 180.910-960. These materials must show safety on treated seed. The end product that combines Adage with labeled fungicides must be tested for seed safety without any detrimental effects on seed germination or plant stand establishment. Pre-test the germination of a small sample of seed lot with Adage prior to large-scale commercial application.

SUNFLOWER

To provide early-season protection of sunflower seedlings against injury by flea beetle, stored grain insects, sunflower beetle, and wireworm, apply Adage at 0.25 milligrams thiamethoxam per seed (each fluid ounce of Adage contains 17.7 grams thiamethoxam).

It is highly recommended to use Adage with compatible and registered seed treatment fungicides such as Apron XL, Dynasty and Maxim 4FS which are proven to control seed and seedling diseases.

Follow planter manufacturer instructions for use of talc or other hopper box additives at planting.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in a cool, dry place. Do not store above 90°F for extended periods.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Handling (≤ 5 gallons)

Non-refillable 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Container Handling (> 5 gallons)

Non-refillable 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. 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 side and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Container Handling *(refillable container)*

Refillable container. Refill this container with pesticide only. Do not use this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, by incineration, or by other procedures allowed by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

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For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-866-796-4368.

Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 941C-L3 0212
4187205

Adage™

Insecticide

A seed treatment product for protection against damage from, or control of, listed insects on alfalfa, cereal grains (including barley, buckwheat, corn, pearl millet, proso millet, oats, popcorn, rice (dry-seeded), rye, sorghum, teosinte, triticale, wheat and wild rice), cotton, cucurbit vegetables, legume vegetables (including soybean), oilseed crops (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard seed, Indian rapeseed seed, rapeseed seed, and safflower seed), peanuts, potatoes, sugarbeets, and sunflower

Active Ingredient:	
Thiamethoxam[1]	47.6%
Other Ingredients:	52.4%
Total:	100.0%

[1]CAS No. 153719-23-4

Adage is a flowable seed treatment containing 5 pounds thiamethoxam per gallon.

See additional precautionary statements and directions for use in booklet.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-941 EPA Est. 100-NE-001

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Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 941C-L3 0212
4187205

15 gallons

Net Contents

KEEP OUT OF REACH OF CHILDREN.

CAUTION

FIRST AID

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
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 eye. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
HOTLINE NUMBER: For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call **1-800-888-8372**.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if inhaled, swallowed, or absorbed through the skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse.
Environmental Hazards: This product is toxic to wildlife and highly toxic to aquatic invertebrates. Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops. Do not contaminate water when disposing of equipment wash water.

STORAGE AND DISPOSAL

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CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.

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