



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

September 12, 2019

Matt Flanery
Regulatory Specialist, Seed Care
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, NC 27419

Subject: PRIA Label Amendment – Rate increase on cotton; updating per Interim Decision; adding me-too use on Crop Group 2 and Crop Group 7
Product Name: Apron XL LS
EPA Registration Number: 100-799
Application Date: 11/21/2018
Decision Numbers: 546361 and 554552

Dear Mr. Flanery:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. The Agency, in accordance with FIFRA, as amended, has also completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Mefenoxam Interim Decision, and has concluded that your submission is acceptable.

This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process.

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Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Fatima Sow by phone at (703)347-8308, or via email at sow.fatima@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to be 'HJ', written over a faint circular stamp or watermark.

Hope Johnson, Product Manager 21
Fungicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

[Master Label]

MEFENOXAM	GROUP	4	FUNGICIDE
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Apron XL® LS

Fungicide

A seed treatment product for protection against *Pythium* and *Phytophthora* causing damping-off, seed rot, and systemic downy mildew diseases of certain crops

Active Ingredients:

Mefenoxam* 33.3%

Other Ingredients: 66.7%

Total: 100.0%

*CAS Nos. 70630-17-0 and 69516-34-3

Apron XL LS is a flowable concentrate for seed treatment containing 3.0 pounds of mefenoxam per gallon.

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use inside booklet.

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EPA Est.

_____ gallons

Net Contents

[Batch Code: _____] (For nonrefillables only.)

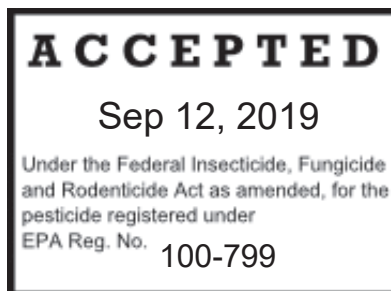


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1.0 FIRST AID

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • 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.
If swallowed	<ul style="list-style-type: none"> • 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 by a poison control center or doctor. • Do not give anything to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • 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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p>HOT LINE NUMBER For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372</p>	

2.0 PRECAUTIONARY STATEMENTS

2.1 Hazards to Humans and Domestic Animals

WARNING/AVISO

Causes substantial but temporary eye irritation. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

2.2 Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made barrier laminate, butyl rubber ≥14 mils, neoprene rubber ≥14 mils, nitrile rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, Viton® ≥14 mils

- Shoes plus socks
- Protective eyewear: faceshield, goggles, or safety glasses

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

2.2.1 User Safety Requirements

Follow 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.

2.2.2 Engineering Controls

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.

2.2.3 User Safety Recommendations

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.

2.3 Environmental Hazards

Do not contaminate water when disposing of equipment washwater or rinsate.

2.3.1 Groundwater Advisory

Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

2.3.2 Surface Water Advisory

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow groundwater. This product is classified as having high potential for reaching surface water via runoff for several months or more after application.

A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of mefenoxam from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

DIRECTIONS FOR USE

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

Apron XL LS may only be used in accordance with directions on this label or separately published EPA approved supplemental labeling for this product.

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 agency responsible for pesticide regulation.

Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat a quantity of seed using equipment similar to that planned for treating the total seed lot. Then conduct germination tests with a portion of this treated 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 crops when treated with Apron XL LS.

Restriction: Maximum usage when applying metalaxyl- and mefenoxam- containing products to the same crop within the same season: Do not apply more than the maximum yearly total application rate for the active ingredient as stated on the label of the product containing the lowest yearly total on that crop.

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

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 (WPS).

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 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 barrier laminate, butyl rubber ≥14 mils, neoprene rubber ≥14 mils, nitrile rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils
- Shoes plus socks
- Protective eyewear

3.0 PRODUCT INFORMATION

Apron XL LS is a systemic fungicide seed dressing specifically for protection against systemic downy mildews and diseases caused by soil-borne *Pythium* and *Phytophthora* spp. When a rate range is specified, use higher specified rates of Apron XL LS when the disease pressure is expected to be high.

For protection against other soil-borne diseases, such as *Rhizoctonia* spp., Apron XL LS should be applied in combination with other registered seed dressing fungicides.

Apply Apron XL LS as a water-based slurry through standard liquid-type seed treatment equipment that provides uniform seed coverage. Seed treaters with atomizers or spinning discs are highly recommended for better product coverage on the seed.

3.1 Resistance Management

MEFENOXAM	GROUP	4	FUNGICIDE
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For resistance management, Apron XL LS contains a Group 4/mefenoxam fungicide. Any fungal population may contain individuals naturally resistant to Apron XL LS and other Group 4 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of Apron XL LS or other Group 4 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.

- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact Syngenta at 1-866-Syngent(a) (866-796-4368). You can also contact your pesticide distributor or university extension specialist to report resistance.

Syngenta encourages responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

4.0 APPLICATION DIRECTIONS

Important: Recirculate Apron XL LS thoroughly before using.

Follow the manufacturer's application instructions for the seed treatment equipment being used.

Apply Apron XL LS as a water-based slurry through standard liquid-type seed treatment equipment that provides uniform seed coverage. Seed treaters with atomizers or spinning discs are highly recommended for better product coverage on the seed. The total application volume must be sufficient to provide the desired level of coverage. Dilution is typically done with water or liquid inoculants. Thoroughly mix the specified amount of Apron XL LS into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used. Uneven or incomplete seed coverage may not give the desired level of disease control.

Certain crops require addition of inoculants when the seed is treated or planted. Apron XL LS is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying Apron XL LS with inoculants.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution. Clean out any unused product from the treater after treating or maintain constant agitation if the leftover slurry will be maintained overnight.

Restrictions:

- Seed treated with this product must be visually identifiable from untreated seed by the use of an approved colorant or dye to prevent accidental use of treated seed as food for humans or feed for animals. Refer to 21 CFR Part 2.25. Any colorant or dye added to treated seed must be cleared for use in accordance with 40 CFR Part 153.155(c).
- Allow seed to dry before bagging.

Follow planter manufacturer's specifications for use of talc or other hopper box additives at planting. Seed must be completely dry before adding to planter.

4.1 Tank Mixtures

Apron XL LS mixes easily with water and other water-based seed treatments. When mixing with products from other manufacturers, test the compatibility prior to use by conducting a jar test: Mix all intended seed treatments with a proportional amount of water to achieve the desired slurry mixture in a clear glass container. Mix well and allow mixture to sit for one hour. Remix and observe for incompatibility.

Mixing Apron XL LS with tank-mix partners: Add ½ of the required water to the mix tank and turn on the agitation. Mechanical agitation is preferred. If using wettable powders, add them first to clean water allowing them to completely disperse prior to adding Apron XL LS or other products. Allow each tank-mix partner to completely disperse before adding the next product. Add the remaining amount of water and agitate. Maintain agitation until the entire slurry mixture has been used.

For protection against other soil-borne diseases, such as *Rhizoctonia* spp., apply Apron XL LS in combination with other registered seed dressing fungicides.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank-mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

5.0 ROTATIONAL CROP RESTRICTIONS

In the event of a crop failure or harvest of a crop grown from seed treated with Apron XL LS, the field may be replanted immediately with any crops.

6.0 SEED CONTAINER LABEL REQUIREMENTS

THE FEDERAL SEED ACT REQUIRES THAT CONTAINERS OF SEEDS TREATED WITH APRON XL LS MUST BE LABELED WITH THE FOLLOWING STATEMENTS:

- This seed has been treated with mefenoxam fungicide.
- Do not use treated seed for feed, food, or oil purposes.

THE US ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON CONTAINERS OF SEEDS TREATED WITH APRON XL LS:

- Store away from feed and foodstuffs.
- Do not allow children, pets or livestock to have access to treated seeds.
- Treated seed exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting, such as in row ends.
- Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves when handling treated seed.
- Dispose of excess treated seed by burying seed away from bodies of water.
- Do not contaminate water bodies when disposing of planting equipment washwater.

- Dispose of seed packaging in accordance with local requirements.
- 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 pesticides remain in ethanol by-products that are used for agronomic practice.
- Treated seed must be incorporated into the soil at the recommended depth.
- **Groundwater Advisory:** Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.
- **USE RESTRICTION:** When using formulations that do not contain dye, to comply with 40 CFR 153.155, all seed treated with an economic poison must be colored with an EPA approved dye such as one of the dyes listed in 40 CFR Sections 180.910 and 180.920 to distinguish and prevent subsequent inadvertent use as food for man or feed for animals.

7.0 SEED TREATMENT DIRECTIONS – DOMESTIC USE

7.1 Artichoke, Globe

Crops	
Artichoke, Globe	
Target Diseases	Rate (fl oz/100 lb of seed)
Pythium Damping-off and Phytophthora spp.: Early-season Root Rot	0.32 – 2 (0.0075 - 0.047 lb ai/100 lb of seeds)
Resistance Management:	
<ul style="list-style-type: none"> • Refer to Section 3.1 	

7.2 Brassica (Cole) Leafy Vegetables Crop Group 5

Crops	
Broccoli (<i>Brassica oleracea</i> var. <i>botrytis</i>)	Cauliflower (<i>Brassica oleracea</i> var. <i>botrytis</i>)
Broccoli, Chinese (gai lan) (<i>Brassica alboglabra</i>)	Cavalo Broccolo (<i>Brassica oleracea</i> var. <i>botrytis</i>)
Broccoli Raab (rapini) (<i>Brassica campestris</i>)	Collards (<i>Brassica oleracea</i> var. <i>acephala</i>)
Brussels sprouts (<i>Brassica oleracea</i> var. <i>gemmifera</i>)	Kale (<i>Brassica oleracea</i> var. <i>acephala</i>)
Cabbage (<i>Brassica oleracea</i>)	Kohlrabi (<i>Brassica oleracea</i> var. <i>gongylodes</i>)
Cabbage, Chinese (bok choy) (<i>Brassica chinensis</i>)	Mizuna (<i>Brassica rapa</i> var. <i>japonica</i>)
Cabbage, Chinese (napa) (<i>Brassica pekinensis</i>)	Mustard greens (<i>Brassica juncea</i>)
Cabbage, Chinese mustard (gai choy) (<i>Brassica campestris</i>)	Mustard spinach (<i>Brassica rapa</i> var. <i>perviridis</i>)
	Rape greens (<i>Brassica napus</i>)
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Damping-off	0.085 - 0.64
Additional Use Directions	

- For seeds sown for transplant production: Use Apron XL LS with a labeled rate of azoxystrobin (e.g., Dynasty®).

USE RESTRICTIONS

- **DO NOT** Apply a Pre-plant Or an At-plant Application of Mefenoxam or Metalaxyl Products to Seed Treated with Apron XL LS. Mefenoxam foliar/in-furrow products (e.g., Ridomil Gold®) are allowed to be applied beginning 6 weeks after transplanting.

Resistance Management:

- Refer to **Section 3.1**.

7.3 Cereal Grains

7.3.1 Barley, Buckwheat, Millet (Pearl and Proso), Oats, Rice, Rye, Triticale, Wheat and Wild Rice

Crops	
Barley Buckwheat Millet, Pearl Millet, Proso Oats	Rice Rye Triticale Wheat Wild Rice
Target Disease	Rate (fl oz/100 lb of seed)
<u>Barley, Buckwheat, Pearl Millet, Proso Millet, Oats, Rice, Rye, Triticale, Wheat, and Wild Rice</u> Pythium Damping-off	0.32 - 0.64
<u>Barley, Oats, Rye, Triticale, and Wheat</u> Pythium Damping-off	0.0425 - 0.085
<u>Millet</u> Pythium Damping-off	0.085 - 0.64
Systemic Downy Mildew	1.28
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

7.3.2 Corn

Crops	
Field Corn Sweet Corn Popcorn	
Target Disease	Rate (fl oz/100 lb of seed)
Field Corn and Popcorn Pythium seed rot and damping-off	0.0425 - 0.085
Sweet Corn Pythium seed rot and damping-off	0.32 - 0.64
Systemic Downy Mildew	1.28
Additional Use Directions	
<ul style="list-style-type: none"> For a greater spectrum of seedling disease protection of corn, combine Apron XL LS with azoxystrobin (e.g., Dynasty), fludioxonil (e.g., Maxim® 4FS), or sedaxane (e.g., Vibrance®). All sweet corn seed treated with Apron XL LS should be planted and not carried over to the following year. 	
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

7.3.3 Sorghum

Crops	
Sorghum	
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Damping-off on all sorghum cultivars	0.32 - 0.64 (0.0023 - 0.0047 mg ai/seed*)
Pythium Damping-off when disease pressure is expected to be low	0.085 - 0.32 (0.0006 - 0.0023 mg ai/seed*)
Systemic downy mildew on cultivars which possess sorghum downy mildew resistance	0.32 - 0.64 (0.0023 - 0.0047 mg ai/seed*)
Systemic downy mildew on cultivars which do not possess resistance to a particular race of sorghum downy mildew grown in areas with recent history of severe disease	1.28 (0.0094 mg ai/seed*)
Additional Use Directions	
<ul style="list-style-type: none"> *Based on an average seed weight of 14,500 sorghum seeds/lb Only high quality sorghum seed (90% germ and above) should be treated with Apron XL LS. Seed treated with the 1.28 fl oz rate should be planted and not carried over to the following year. 	
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

7.4 Cotton

Crops	
Cotton	
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Seed Rot and Damping-off	0.32-1.14
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

7.5 Cucurbit Vegetables Crop Group 9

Crops		
Chayote (fruit) (<i>Sechium edule</i>)	Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i>)	Squash, summer (<i>Cucurbita pepo</i> var. <i>meloepo</i>)
Chinese waxgourd (Chinese preserving melon) (<i>Benincasa hispida</i>)	Cantaloupe	Crookneck squash
Citron melon (<i>Citrullus lanatus</i> var. <i>citroides</i>)	Casaba	Scallop squash
Cucumber (<i>Cucumis sativus</i>)	Crenshaw melon	Straightneck squash
Gherkin (<i>Cucumis anguria</i>)	Golden pershaw melon	Vegetable marrow
Gourd, edible (<i>Lagenaria</i> spp.)	Honeydew melon	Zucchini
Hyotan	Honey balls	Squash, winter (<i>Cucurbita maxima</i> , <i>C. moschata</i>)
Cucuzza	Mango melon	Butternut squash
Gourd, edible (<i>Luffa acutangula</i> , <i>L. cylindrical</i>)	Persian melon	Calabaza
Hechima	Pineapple melon	Hubbard squash
Chinese okra	Santa Claus melon	Squash, winter (<i>Cucurbita mixta</i> , <i>C. pepo</i>):
<i>Momordica</i> spp.	Snake melon	Acorn squash
Balsam apple	True cantaloupe	Spaghetti squash
Balsam pear	Pumpkin (<i>Cucurbita</i> spp.)	Watermelon (hybrids and/or varieties of <i>Citrullus lanatus</i>)
Bittermelon		
Chinese cucumber		
Target Disease		Rate (fl oz/100 lb of seed)
Pythium Damping-off		0.085 - 0.64
Additional Use Directions		
<ul style="list-style-type: none"> For seeds sown for transplant production: Use Apron XL LS with a labeled rate of azoxystrobin (e.g., Dynasty). 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT Apply a Pre-plant Or an At-plant Application of Mefenoxam or Metalaxyl Products to Seed Treated with Apron XL LS. Mefenoxam foliar/in-furrow products (e.g., Ridomil Gold®) are allowed to be applied beginning 6 weeks after transplanting. 		
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		

7.5.1 Okra

Crops		
Okra		
Target Disease		Rate (fl oz/100 lb of seed)
Pythium Damping-off		0.16 – 0.64
Early season Phytophthora		0.64
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1 		

7.6 Grass Forage, Fodder, and Hay Crop Group 17

Crops	
Graminae Family (except Sugarcane and crops included in Forage, Fodder, and Straw of Cereal Grains Crop Group 16)	
<ul style="list-style-type: none"> Green Cured Grasses Grown for Hay or Silage All Pasture and Range Grasses	
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Damping-off	0.085 - 0.64
USE RESTRICTIONS	
<ul style="list-style-type: none"> DO NOT apply more than 0.0081 lb ai/Acre (3.7 g ai/Acre) per calendar year of mefenoxam or metalaxyl-containing products as a seed treatment on Grass Forage, Fodder, and Hay Crop Group 17. 	
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

7.7 Leafy Vegetables (Except Brassica Vegetables) Crop Group 4

Crops		
Amaranth (leafy amaranth, Chinese spinach, tampala) (<i>Amaranthus</i> spp.)	Chrysanthemum, garland (<i>Chrysanthemum coronarium</i> var. <i>spatiosum</i>)	Orach (<i>Atriplex hortensis</i>)
Arugula (Roquette) (<i>Eruca sativa</i>)	Corn Salad (<i>Valerianella locusta</i>)	Parsley (<i>Petroselinum crispum</i>)
Cardoon (<i>Cynara cardunculus</i>)	Cress, garden (<i>Lepidium sativum</i>)	Purslane, garden (<i>Portulaca oleracea</i>)
Celery (Apium graveolens var. dulce)	Cress, upland (<i>yellow rocket</i> , winter cress) (<i>Barbarea vulgaris</i>)	Purslane, winter (<i>Montia perfoliata</i>)
Celery, Chinese (Apium graveolens var. <i>secalinum</i>)	Dandelion (<i>Taraxacum officinale</i>)	Radicchio (<i>red chicory</i>) (<i>Cichorium intybus</i>)
Celtuce (<i>Lactuca sativa</i> var. <i>angustana</i>)	Dock (<i>sorrel</i>) (<i>Rumex</i> spp.)	Rhubarb (<i>Rheum rhabarbarum</i>)
Chervil (<i>Anthriscus cerefolium</i>)	Endive (<i>escarole</i>) (<i>Cichorium endivia</i>)	Spinach (<i>Spinacia oleracea</i>)
Chrysanthemum, edible-leaved (<i>Chrysanthemum coronarium</i> var. <i>coronarium</i>)	Fennel, Florence (<i>finocchio</i>) (<i>Foeniculum vulgare</i> var. <i>azoricum</i>)	Spinach, New Zealand (<i>Tetragonia tetragonioides</i> , <i>T. expansa</i>)
	Lettuce, Head and Leaf (<i>Lactuca sativa</i>)	Spinach, vine (<i>Malabar spinach</i> , <i>Indian spinach</i>) (<i>Basella alba</i>)
		Swiss chard (<i>Beta vulgaris</i> var. <i>cicla</i>)
Target Disease	Rate (fl oz/100 lb of seed)	
Pythium Damping-off	0.085 - 0.64	
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT APPLY Apron XL LS to Spinach that is to be grown in the greenhouse or enclosed environmentally-controlled rooms. Containers or bags of Spinach treated with Apron XL LS must be labeled as follows: “DO NOT USE SEED FOR SPINACH TO BE GROWN IN THE GREENHOUSE OR INSIDE ENVIRONMENTALLY-CONTROLLED ROOMS.” 		
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		

7.8 Leaves of Root and Tuber Vegetables (Human Food or Animal Feed) Crop Group 2

Crops	
Beet, Garden (<i>Beta vulgaris</i>)	Parsnip (<i>Pastinaca sativa</i>)
Beet, Sugar (<i>Beta vulgaris</i>)	Radish (<i>Raphanus sativus</i>)
Burdock, edible (<i>Arctium lappa</i>)	Radish, Oriental (daikon) (<i>Raphanus sativus</i> subvar. <i>longipinnatus</i>)
Carrot (<i>Daucus carota</i>)	Rutabaga (<i>Brassica campestris</i> var. <i>napobrassica</i>)
Cassava, Bitter and Sweet (<i>Manihot esculenta</i>)	Salsify, Black (<i>Scorzonera hispanica</i>)
Celeriac (celery root) (<i>Apium graveolens</i> var. <i>rapaceum</i>)	Sweet Potato (<i>Ipomoea batatas</i>)
Chervil, Turnip-Rooted (<i>Chaerophyllum bulbosum</i>)	Tanier(cocoyam) (<i>Xanthosoma sagittifolium</i>)
Chicory (<i>Cichorium intybus</i>)	Turnip (<i>Brassica rapa</i> var. <i>rapa</i>)
Dasheen (taro) (<i>Colocasia esculenta</i>)	Yam, True (<i>Dioscorea</i> spp.)
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Damping-off	0.085 - 0.64
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

7.9 Legume Vegetables (Succulent or Dried) Crop Group 6 and Foliage of Legume Vegetables Crop Group 7, Except Soybean (See Soybean)

Crops			
Bean (<i>Lupinus</i> spp.)	Bean (<i>Vigna</i> spp.)	Pea (<i>Pisum</i> spp.)	Broad Bean(fava bean) (<i>Vicia faba</i>)
Grain Lupin	Adzuki Bean	Dwarf Pea	Chickpea (garbanzo bean)
Sweet Lupin	Asparagus Bean	Edible-pod Pea	(<i>Cicer arietinum</i>)
White Lupin	Blackeyed Pea	English Pea	Guar (<i>Cyamopsis tetragonoloba</i>)
White Sweet Lupin	Catjang	Field Pea	Jackbean (<i>Canavalia ensiformis</i>)
Bean (<i>Phaseolus</i> spp.)	Chinese Longbean	Garden Pea	Lablab Bean (hyacinth bean)
Field Bean	Cowpea	Green Pea	(<i>Lablab purpureus</i>)
Kidney Bean	Crowder Pea	Snow Pea	Lentil (<i>Lens esculenta</i>)
Lima Bean	Moth Bean	Sugar Snap Pea	Pigeon Pea (<i>Cajanus cajan</i>)
Navy Bean	Mung Bean		Soybean, (immature seed)
Pinto Bean	Rice Bean		(edamame) (<i>Glycine max</i>)
Runner Bean	Southern Pea		Sword Bean (<i>Canavalia gladiata</i>)
Snap Bean	Urd Bean		
Tepary Bean	Yardlong Bean		
Wax Bean			
Target Disease	Rate (fl oz/100 lb of seed)		
Pythium Damping-off	0.16 - 0.64		

Field Beans, Kidney Beans, Navy Beans, Pinto Beans, and Lentils Pythium Damping-off when disease pressure is expected to be low in combination with other seed treatment products labeled for these crops	0.085 - 0.32
Early-season Phytophthora	0.64
Peas Systemic Downy Mildew	1.28
USE RESTRICTIONS	
<ul style="list-style-type: none"> DO NOT apply more than 0.25 lb ai/Acre (115 g ai/Acre) per calendar year of mefenoxam or metalaxyl-containing products as a seed treatment on Legume Vegetables (Succulent or Dried) Crop Group 6 and Foliage of Legume Vegetables Crop Group 7, Except Soybean (See Soybean). 	
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

7.10 Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay) Crop Group 18

Crops	
Alfalfa (<i>Medicago sativa</i> subsp. <i>sativa</i>) Bean, velvet (<i>Mucuna pruriens</i> var. <i>utilis</i>) Clover (Trifolium spp. and Melilotus spp.) Kudzu (<i>Pueraria lobata</i>) Lespedeza (Lespedeza spp.) Lupin (Lupinus spp.)	Sainfoin (<i>Onobrychis viciifolia</i>) Trefoil (Lotus spp.) Vetch (Vicia spp.) Vetch, crown (<i>Coronilla varia</i>) Vetch, milk (Astragalus spp.)
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Damping-off Early-season Phytophthora Alfalfa Suppression of early-season Downy Mildew	0.64
USE RESTRICTIONS	
<ul style="list-style-type: none"> DO NOT apply more than 0.0047 lb ai/Acre (2.1 g ai/Acre) per calendar year of mefenoxam or metalaxyl-containing products as a seed treatment on Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay) Crop Group 18. 	
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

7.11 Onion, Bulb, Crop Subgroup 3-07A and Onion, Green, Crop Subgroup 3-07B

Crops	
Chive, fresh leaves (<i>Allium schoenoprasum</i> L.)	Onion, Beltsville bunching (<i>Allium x proliferum</i> (Moench) Schrad.)
Chive, Chinese, fresh leaves (<i>Allium tuberosum</i> Rottler ex Spreng)	Onion, bulb (<i>Allium cepa</i> L. var. <i>cepa</i>)
Daylily, bulb (<i>Hemerocallis fulva</i> (L.) L. var. <i>fulva</i>)	Onion, Chinese, bulb (<i>Allium chinense</i> G. Don)
Elegans hosta (<i>Hosta sieboldiana</i> (Hook.) Engl.)	Onion, fresh (<i>Allium fistulosum</i> L. var. <i>caespitosum</i> Makino)
Fritillaria, bulb (<i>Fritillaria</i> L. <i>fritillary</i>)	Onion, green (<i>Allium cepa</i> L. var. <i>cepa</i>)
Fritillaria, leaves (<i>Fritillaria</i> L. <i>fritillary</i>)	Onion, macrostem (<i>Allium macrostemon</i> Bunge)
Garlic, bulb (<i>Allium sativum</i> L. var. <i>sativum</i>)	Onion, pearl (<i>Allium porrum</i> var. <i>sectivum</i>)
Garlic, great-headed, bulb (<i>Allium ampeloprasum</i> L. var. <i>ampeloprasum</i>)	Onion, potato, bulb (<i>Allium cepa</i> L. var. <i>aggregatum</i> G. Don)
Garlic, Serpent, bulb (<i>Allium sativum</i> var. <i>ophioscorodon</i>)	Onion, tree, tops (<i>Allium x proliferum</i> (Moench) Schrad. ex Willd.)
Kurrat (<i>Allium kurrat</i> Schweinf. ex. K. Krause)	Onion, Welsh, tops (<i>Allium fistulosum</i> L.)
Lady's leek (<i>Allium cernuum</i> Roth)	Shallot, bulb (<i>Allium cepa</i> var. <i>aggregatum</i> G. Don)
Leek (<i>Allium ampeloprasum</i> L. var. <i>porrum</i> (L.) J. Gay, A. <i>porrum</i>);	Shallot, fresh leaves (<i>Allium cepa</i> var. <i>aggregatum</i> G. Don)
Leek, wild (<i>Allium tricoccum</i> Aiton)	Cultivars, varieties, and/or hybrids of these
Lily, bulb (<i>Lilium</i> spp.; <i>Lilium leichtlinii</i> var. <i>maximowiczii</i> , L. <i>lancifolium</i>)	
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Damping-off	0.085 - 0.64
USE RESTRICTIONS	
<ul style="list-style-type: none"> DO NOT apply more than 0.0078 lb ai/Acre (3.5 g ai/Acre) per calendar year of mefenoxam or metalaxyl-containing products as a seed treatment on Onion, Bulb, Crop Subgroup 3-07A and Onion, Green, Crop Subgroup 3-07B. 	
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

7.12 Peanut

Crops	
Peanut	
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Seed Rot and Damping-off	0.16 - 0.64
USE RESTRICTIONS	
<ul style="list-style-type: none"> DO NOT apply more than 0.071 lb ai/Acre (32 g ai/Acre) per calendar year of mefenoxam or metalaxyl-containing products as a seed treatment on Peanut. 	
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

7.13 Rapeseed Crop Subgroup 20A

Crops		
Borage	Hare's ear mustard	Oil radish
Crambe	Lesquerella	Poppy seed

Cuphea Echium Flax seed Gold of pleasure	Lunaria Meadowfoam Milkweed Mustard seed	Rapeseed (canola) Sesame Sweet rocket Cultivars, varieties, and/or hybrids of these
Target Disease		Rate (fl oz/100 lb of seed)
Pythium damping-off		0.32
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1 		

7.14 Root and Tuber Vegetables Crop Group 1, Except Potato

Crops	
Arracacha (<i>Arracacia xanthorrhiza</i>) Arrowroot (<i>Maranta arundinacea</i>) Artichoke, Chinese (<i>Stachys affinis</i>) Artichoke, Jerusalem (<i>Helianthus tuberosus</i>) Beet, garden (<i>Beta vulgaris</i>) Beet, sugar (<i>Beta vulgaris</i>) Burdock, Edible (<i>Arctium lappa</i>) Canna, Edible (Queensland arrowroot) (<i>Canna indica</i>) Carrot (<i>Daucus carota</i>) Cassava, Bitter & Sweet (<i>Manihot esculenta</i>) Celeriac (celery root) (<i>Apium graveolens</i> var. <i>rapaceum</i>) Chayote (root) (<i>Sechium edule</i>) Chervil, turnip-rooted (<i>Chaerophyllum bulbosum</i>) Chicory (<i>Cichorium intybus</i>) Chufa (<i>Cyperus esculentus</i>) Dasheen (Taro) (<i>Colocasia esculenta</i>) Ginger (<i>Zingiber officinale</i>) Ginseng (<i>Panax quinquefolius</i>)	Horseradish (<i>Armoracia rusticana</i>) Leren (<i>Calathea allouia</i>) Parsley, turnip-rooted (<i>Petroselinum crispum</i> var. <i>tuberosum</i>) Parsnip (<i>Pastinaca sativa</i>) Radish (<i>Raphanus sativus</i>) Radish, oriental (daikon) (<i>Raphanus sativus</i> subvar. <i>longipinnatus</i>) Rutabaga (<i>Brassica campestris</i> var. <i>napobrassica</i>) Salsify (oyster plant) (<i>Tragopogon porrifolius</i>) Salsify, black (<i>Scorzonera hispanica</i>) Salsify, Spanish (<i>Scolymus hispanicus</i>) Skirret (<i>Sium sisarum</i>) Sweet Potato (<i>Ipomoea batatas</i>) Tanier (cocoyam) (<i>Xanthosoma sagittifolium</i>) Turmeric (<i>Curcuma longa</i>) Turnip (<i>Brassica rapa</i> var. <i>rapa</i>) Yam Bean (jicama, manioc pea) (<i>Pachyrhizus</i> spp.) Yam, True (<i>Dioscorea</i> spp.)
Target Disease	Rate (fl oz/100 lb of seed)
Pythium damping-off	0.085 - 0.64
USE RESTRICTIONS	
<ul style="list-style-type: none"> • DO NOT Apply Apron XL LS to Potatoes. • DO NOT apply more than 0.020 lb ai/Acre (9.2 g ai/Acre) per calendar year of mefenoxam or metalaxyl-containing products as a seed treatment on Root and Tuber Vegetables Crop Group 1, Except Potato. 	
Resistance Management:	
<ul style="list-style-type: none"> • Refer to Section 3.1 	

7.15 Soybean

Crops	
Soybean	
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Damping-off and Early-season Phytophthora Protection	0.16 - 0.64 (0.006 - 0.023 mg ai/seed*)
Additional Use Directions	

<ul style="list-style-type: none"> *Based on an average seed weight of 3,000 soybean seeds/lb. For best early-season Phytophthora protection, use the higher specified rate.
USE RESTRICTIONS
<ul style="list-style-type: none"> DO NOT apply more than 0.052 lb ai/Acre (23 g ai/Acre) per calendar year of mefenoxam or metalaxyl-containing products as a seed treatment on Soybean.
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1

7.16 Sunflower

Crops	
Sunflower	
Target Disease	Rate (fl oz/100 lb of seed)
Systemic downy mildew	1.28 (0.029 mg ai/seed*)
Additional Use Directions	
<ul style="list-style-type: none"> *Based on an average seed weight of 4,500 sunflower seeds/lb. 	
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1 	

7.17 Turfgrass

Crops	
Turfgrasses (All)	
Target Disease	Rate (fl oz/100 lb of seed)
Pythium damping-off	0.64 - 1.28
Additional Use Directions	
<ul style="list-style-type: none"> For use on golf courses, home lawns, reclamation and erosion control projects. For long-term protection from Pythium in areas when using seed treated with Apron XL LS, make an application of Subdue MAXX® 7-10 days after seeding. 	
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1 	

8.0 SEED CONTAINER LABEL REQUIREMENTS – EXPORT USE

THE FEDERAL SEED ACT REQUIRES THAT CONTAINERS OF SEEDS TREATED WITH APRON XL LS MUST BE LABELED WITH THE FOLLOWING STATEMENTS:

- This seed has been treated with mefenoxam fungicide.
- **DO NOT** use for feed, food, or oil purposes.

THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON CONTAINERS OF SEEDS TREATED FOR EXPORT USE WITH APRON XL LS:

- **TREATED SEED FOR EXPORT ONLY – NOT FOR DOMESTIC SALE OR USE IN THE UNITED STATES.**

EXPORTER IS RESPONSIBLE FOR VERIFYING SEED CONTAINER LABEL REQUIREMENTS IN COUNTRY OF DESTINATION OR USE. MAXIMUM USE RATES SPECIFIED ON THIS LABEL MUST NOT BE EXCEEDED.

9.0 SEED TREATMENT DIRECTIONS – EXPORT USE

9.1 Brassica (Cole) Leafy Vegetables Crop Group 5

Crops	
Broccoli (<i>Brassica oleracea</i> var. <i>botrytis</i>)	Cauliflower (<i>Brassica oleracea</i> var. <i>botrytis</i>)
Broccoli, Chinese (gai lon) (<i>Brassica alboglabra</i>)	Cavalo Broccolo (<i>Brassica oleracea</i> var. <i>botrytis</i>)
Broccoli Raab (rapini) (<i>Brassica campestris</i>)	Collards (<i>Brassica oleracea</i> var. <i>acephala</i>)
Brussels sprouts (<i>Brassica oleracea</i> var. <i>gemmifera</i>)	Kale (<i>Brassica oleracea</i> var. <i>acephala</i>)
Cabbage (<i>Brassica oleracea</i>)	Kohlrabi (<i>Brassica oleracea</i> var. <i>gongylodes</i>)
Cabbage, Chinese (bok choy) (<i>Brassica chinensis</i>)	Mizuna (<i>Brassica rapa</i> var. <i>japonica</i>)
Cabbage, Chinese (napa) (<i>Brassica pekinensis</i>)	Mustard greens (<i>Brassica juncea</i>)
Cabbage, Chinese mustard (gai choy) (<i>Brassica campestris</i>)	Mustard spinach (<i>Brassica rapa</i> var. <i>perviridis</i>)
	Rape greens (<i>Brassica napus</i>)
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Damping-off	0.32 - 0.64
Additional Use Directions	
<ul style="list-style-type: none"> • Verify the Actual Registered Rate in Country of Destination or Use. • Restriction: Maximum Use Rates Specified on This Label Must Not Be Exceeded. 	
Resistance Management:	
<ul style="list-style-type: none"> • Refer to Section 3.1. 	

9.2 Cereal Grains

9.2.1 Corn

Crops	
Field Corn Sweet Corn Popcorn	
Target Disease	Rate (fl oz/100 lb of seed)
Pythium damping-off	0.32-0.64
Systemic downy mildew	2.2
Additional Use Directions	
<ul style="list-style-type: none"> Verify the Actual Registered Rate in Country of Destination or Use. Restriction: Maximum Use Rates Specified on This Label Must Not Be Exceeded. 	
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

9.2.2 Millet

Crops	
Millet, Pearl Millet, Proso	
Target Disease	Rate (fl oz/100 lb of seed)
Pythium damping-off	0.32-0.64
Systemic downy mildew	2.4
Additional Use Directions	
<ul style="list-style-type: none"> Verify the Actual Registered Rate in Country of Destination or Use. Restriction: Maximum Use Rates Specified on This Label Must Not Be Exceeded. 	
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

9.2.3 Sorghum

Crops	
Sorghum	
Target Disease	Rate (fl oz/100 lb of seed)
Pythium damping-off	0.32 - 0.64 (0.0023 - 0.0047 mg ai/seed*)
Systemic downy mildew	2.2 (0.0161 mg ai/seed*)
Additional Use Directions	
<ul style="list-style-type: none"> *Based on an average seed weight of 14,500 sorghum seeds/lb Only high quality sorghum seed (90% germ and above) should be treated with Apron XL LS. Verify the Actual Registered Rate in Country of Destination or Use. Restriction: Maximum Use Rates Specified on This Label Must Not Be Exceeded. 	
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

9.3 Cucurbit Vegetables Crop Group 9

Crops		
Chayote (fruit) (<i>Sechium edule</i>)	Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i>)	Squash, summer (<i>Cucurbita pepo</i> var. <i>meloepo</i>)
Chinese waxgourd (Chinese preserving melon) (<i>Benincasa</i> <i>hispida</i>)	Cantaloupe	Crookneck squash
Citron melon (<i>Citrullus lanatus</i> var. <i>citroides</i>)	Casaba	Scallop squash
Cucumber (<i>Cucumis sativus</i>)	Crenshaw melon	Straightneck squash
Gherkin (<i>Cucumis anguria</i>)	Golden pershaw melon	Vegetable marrow
Gourd, edible (<i>Lagenaria</i> spp.)	Honeydew melon	Zucchini
Hyotan	Honey balls	Squash, winter (<i>Cucurbita maxima</i> , <i>C. moschata</i>)
Cucuzza	Mango melon	Butternut squash
Gourd, edible (<i>Luffa acutangula</i> , <i>L. cylindrical</i>)	Persian melon	Calabaza
Hechima	Pineapple melon	Hubbard squash
Chinese okra	Santa Claus melon	Squash, winter (<i>Cucurbita mixta</i> , <i>C. pepo</i>):
<i>Momordica</i> spp.	Snake melon	Acorn squash
Balsam apple	True cantaloupe	Spaghetti squash
Balsam pear	Pumpkin (<i>Cucurbita</i> spp.)	Watermelon (hybrids and/or varieties of <i>Citrullus lanatus</i>)
Bittermelon		
Chinese cucumber		
Target Disease	Rate (fl oz/100 lb of seed)	
Pythium Damping-off	0.32-0.64	
Additional Use Directions		

- Verify the Actual Registered Rate in Country of Destination or Use.
- **Restriction:** Maximum Use Rates Specified on This Label Must Not Be Exceeded.

Resistance Management:

- Refer to **Section 3.1**

9.4 Fruiting Vegetables (Except Cucurbits) Crop Group 8

Crops	
Eggplant (<i>Solanum melongena</i>) Groundcherry (<i>Physalis</i> spp.) Pepino (<i>Solanum muricatum</i>) Pepper (<i>Capsicum</i> spp.) Bell pepper Chili pepper Cooking pepper Pimento Sweet pepper	Tomatillo (<i>Physalis ixocarpa</i>) Tomato (<i>Solanum esculentum</i>)
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Damping-off	0.32 - 0.64
Additional Use Directions	
<ul style="list-style-type: none"> • Verify the Actual Registered Rate in Country of Destination or Use. • Restriction: Maximum Use Rates Specified on This Label Must Not Be Exceeded. 	
Resistance Management:	
<ul style="list-style-type: none"> • Refer to Section 3.1 	

9.5 Leafy Vegetables (Except Brassica Vegetables) Crop Group 4

Crops		
Amaranth (leafy amaranth, Chinese spinach, tampala) (<i>Amaranthus</i> spp.)	Chrysanthemum, garland (<i>Chrysanthemum coronarium</i> var. <i>spatiosum</i>)	Orach (<i>Atriplex hortensis</i>)
Arugula (Roquette) (<i>Eruca sativa</i>)	Corn Salad (<i>Valerianella locusta</i>)	Parsley (<i>Petroselinum crispum</i>)
Cardoon (<i>Cynara cardunculus</i>)	Cress, garden (<i>Lepidium sativum</i>)	Purslane, garden (<i>Portulaca oleracea</i>)
Celery (<i>Apium graveolens</i> var. <i>dulce</i>)	Cress, upland (yellow rocket, winter cress) (<i>Barbarea vulgaris</i>)	Purslane, winter (<i>Montia perfoliata</i>)
Celery, Chinese (<i>Apium graveolens</i> var. <i>secalinum</i>)	Dandelion (<i>Taraxacum officinale</i>)	Radicchio (red chicory) (<i>Cichorium intybus</i>)
Celtuce (<i>Lactuca sativa</i> var. <i>angustana</i>)	Dock (sorrel) (<i>Rumex</i> spp.)	Rhubarb (<i>Rheum rhabarbarum</i>)
Chervil (<i>Anthriscus cerefolium</i>)	Endive (escarole) (<i>Cichorium endivia</i>)	Spinach (<i>Spinacia oleracea</i>)
Chrysanthemum, edible-leaved (<i>Chrysanthemum coronarium</i> var. <i>coronarium</i>)	Fennel, Florence (finocchio) (<i>Foeniculum vulgare</i> var. <i>azoricum</i>)	Spinach, New Zealand (<i>Tetragonia tetragonioides</i> , <i>T. expansa</i>)
	Lettuce, Head and Leaf (<i>Lactuca sativa</i>)	Spinach, vine (Malabar spinach, Indian spinach) (<i>Basella alba</i>)
		Swiss chard (<i>Beta vulgaris</i> var. <i>cicla</i>)
Target Disease	Rate (fl oz/100 lb of seed)	
Pythium Damping-off	0.32 - 0.64	
Additional Use Directions		
<ul style="list-style-type: none"> Verify the Actual Registered Rate in Country of Destination or Use. Restriction: Maximum Use Rates Specified on This Label Must Not Be Exceeded. 		
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1 		

9.6 Onion, Bulb, Crop Subgroup 3-07A and Onion, Green, Crop Subgroup 3-07B

Crops	
Chive, fresh leaves (<i>Allium schoenoprasum</i> L.)	Onion, Beltsville bunching (<i>Allium x proliferum</i> (Moench) Schrad.)
Chive, Chinese, fresh leaves (<i>Allium tuberosum</i> Rottler ex Spreng)	Onion, bulb (<i>Allium cepa</i> L. var. <i>cepa</i>)
Daylily, bulb (<i>Hemerocallis fulva</i> (L.) L. var. <i>fulva</i>)	Onion, Chinese, bulb (<i>Allium chinense</i> G. Don)
Elegans hosta (<i>Hosta sieboldiana</i> (Hook.) Engl.)	Onion, fresh (<i>Allium fistulosum</i> L. var. <i>caespitosum</i> Makino)
Fritillaria, bulb (<i>Fritillaria</i> L. <i>fritillary</i>)	Onion, green (<i>Allium cepa</i> L. var. <i>cepa</i>)
Fritillaria, leaves (<i>Fritillaria</i> L. <i>fritillary</i>)	Onion, macrostem (<i>Allium macrostemon</i> Bunge)
Garlic, bulb (<i>Allium sativum</i> L. var. <i>sativum</i>)	Onion, pearl (<i>Allium porrum</i> var. <i>sectivum</i>)
Garlic, great-headed, bulb (<i>Allium ampeloprasum</i> L. var. <i>ampeloprasum</i>)	Onion, potato, bulb (<i>Allium cepa</i> L. var. <i>aggregatum</i> G. Don)
Garlic, Serpent, bulb (<i>Allium sativum</i> var. <i>ophioscorodon</i>)	Onion, tree, tops (<i>Allium x proliferum</i> (Moench) Schrad. ex Willd.)
Kurrrat (<i>Allium kurrrat</i> Schweinf. ex. K. Krause)	Onion, Welsh, tops (<i>Allium fistulosum</i> L.)
Lady's leek (<i>Allium cernuum</i> Roth)	Shallot, bulb (<i>Allium cepa</i> var. <i>aggregatum</i> G. Don)
Leek (<i>Allium ampeloprasum</i> L. var. <i>porrum</i> (L.) J. Gay, A. <i>porrum</i>);	Shallot, fresh leaves (<i>Allium cepa</i> var. <i>aggregatum</i> G. Don)
Leek, wild (<i>Allium tricoccum</i> Aiton)	Cultivars, varieties, and/or hybrids of these
Lily, bulb (<i>Lilium</i> spp.; <i>Lilium leichtlinii</i> var. <i>maximowiczii</i> , L. <i>lancifolium</i>)	
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Damping-off	0.32 - 0.64
Additional Use Directions	
<ul style="list-style-type: none"> Verify the Actual Registered Rate in Country of Destination or Use. Restriction: Maximum Use Rates Specified on This Label Must Not Be Exceeded. 	
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

9.7 Peas

Crops	
Pea (<i>Pisum</i> spp.)	
Dwarf Pea	
Edible-pod Pea	
English Pea	
Field Pea	
Garden Pea	
Green Pea	
Snow Pea	
Sugar Snap Pea	
Target Disease	Rate (fl oz/100 lb of seed)
Pythium Damping-off and Early-season Phytophthora	0.64 - 1.28
Downy Mildew	1.28

Additional Use Directions
<ul style="list-style-type: none"> Verify the Actual Registered Rate in Country of Destination or Use. Restriction: Maximum Use Rates Specified on This Label Must Not Be Exceeded.
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1.

9.8 Root and Tuber Vegetables Crop Group 1, Except Potato

Crops	
Arracacha (<i>Arracacia xanthorrhiza</i>) Arrowroot (<i>Maranta arundinacea</i>) Artichoke, Chinese (<i>Stachys affinis</i>) Artichoke, Jerusalem (<i>Helianthus tuberosus</i>) Beet, garden (<i>Beta vulgaris</i>) Beet, sugar (<i>Beta vulgaris</i>) Burdock, Edible (<i>Arctium lappa</i>) Canna, Edible (Queensland arrowroot) (<i>Canna indica</i>) Carrot (<i>Daucus carota</i>) Cassava, Bitter & Sweet (<i>Manihot esculenta</i>) Celeriac (celery root) (<i>Apium graveolens</i> var. <i>rapaceum</i>) Chayote (root) (<i>Sechium edule</i>) Chervil, turnip-rooted (<i>Chaerophyllum bulbosum</i>) Chicory (<i>Cichorium intybus</i>) Chufa (<i>Cyperus esculentus</i>) Dasheen (Taro) (<i>Colocasia esculenta</i>) Ginger (<i>Zingiber officinale</i>) Ginseng (<i>Panax quinquefolius</i>)	Horseradish (<i>Armoracia rusticana</i>) Leren (<i>Calathea allouia</i>) Parsley, turnip-rooted (<i>Petroselinum crispum</i> var. <i>tuberosum</i>) Parsnip (<i>Pastinaca sativa</i>) Radish (<i>Raphanus sativus</i>) Radish, oriental (daikon) (<i>Raphanus sativus</i> subvar. <i>longipinnatus</i>) Rutabaga (<i>Brassica campestris</i> var. <i>napobrassica</i>) Salsify (oyster plant) (<i>Tragopogon porrifolius</i>) Salsify, black (<i>Scorzonera hispanica</i>) Salsify, Spanish (<i>Scolymus hispanicus</i>) Skirret (<i>Sium sisarum</i>) Sweet Potato (<i>Ipomoea batatas</i>) Tanier (cocoyam) (<i>Xanthosoma sagittifolium</i>) Turmeric (<i>Curcuma longa</i>) Turnip (<i>Brassica rapa</i> var. <i>rapa</i>) Yam Bean (jicama, manio pea) (<i>Pachyrhizus</i> spp.) Yam, True (<i>Dioscorea</i> spp.)
Target Disease	Rate (fl oz/100 lb of seed)
Pythium damping-off	0.32 - 0.64
Additional Use Directions	
<ul style="list-style-type: none"> Verify the Actual Registered Rate in Country of Destination or Use. Restriction: Maximum Use Rates Specified on This Label Must Not Be Exceeded. 	
USE RESTRICTIONS	
DO NOT Apply Apron XL LS to Potatoes.	
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1 	

9.9 Sunflower

Crops	
Sunflower	
Target Disease	Rate (fl oz/100 lb of seed)
Systemic downy mildew	3.75 - 4.45 (0.085 - 0.101 mg ai/seed*)
Additional Use Directions	
<ul style="list-style-type: none"> *Based on an average seed weight of 4,500 sunflower seeds/lb. Verify the Actual Registered Rate in Country of Destination or Use. Restriction: Maximum Use Rates Specified on This Label Must Not Be Exceeded. 	
Resistance Management:	
<ul style="list-style-type: none"> Refer to Section 3.1 	

10.0 STORAGE AND DISPOSAL

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in the original container and only in a cool, dry, secure place.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility. Open dumping is prohibited.

Container Handling [less than or equal to 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. Drain for 10 seconds after the flow begins to drip. Fill the container ¼ 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 approved by state and local authorities.

Container Handling [greater than 5 gallons]

Refillable container. Refill this container with pesticide only. Do not reuse 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 person refilling. 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, or by incineration, or by other procedures approved by state and local authorities.

Container Handling [greater than 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. Fill the container $\frac{1}{4}$ 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

For minor spills, leaks, etc., follow all precautions and restrictions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

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

11.0 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 consistent with 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 consistent with 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 CONSISTENT WITH 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 consistent with 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 CONSISTENT WITH 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.**

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Syngenta Crop Protection at 1-800-334-9481.

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