



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 30, 2022

Patrick McCain
Regulatory Team Lead, Seedcare and SPS
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, NC 27419

Subject: PRIA Label Amendment – New Uses – Seed treatment on cotton, gin byproducts; cotton, undelinted seed; grain, cereal, except rice, group 15; grain, cereal, forage, fodder, and straw, group 16; herb group 25; rapeseed subgroup 20A; spice group 26; vegetable, *Brassica*, head and stem, group 5-16; vegetable, bulb, group 3-07; vegetable, cucurbit, group 9; vegetable, fruiting, group 8-10; vegetable, leafy, group 4-16; vegetable, leaves of root and tuber, group 2; vegetable, legume, group 6; vegetable, stalk, stem, and leaf petiole group 22; vegetable, root, subgroup 1A; and vegetable, tuberous and corm, except potato, subgroup 1D.
Product Name: Vayantis®
EPA Registration Number: 100-1635
Application Date: April 16, 2021
Decision Number: 573356

Dear Mr. McCain:

The application referred to above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable under FIFRA section 3(c)(5).

You must submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) 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 18 months from the date of this letter. After 18 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 FIFRA 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) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced


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on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. 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 Lindsay DeMers at demers.lindsay@epa.gov.

Sincerely,

A handwritten signature in cursive script that reads "Rachel C. Holloman".

Rachel C. Holloman, Chief
Fungicide and Herbicide Branch
Registration Division
Office of Pesticide Programs

Enclosure: stamped "accepted" label

ACCEPTED
06/30/2022
Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 100-1635

[MASTER]

PICARBUTRAZOX GROUP U17 FUNGICIDE

Vayantis®

Fungicide

A seed treatment product for protection against certain diseases of corn, soybean, cotton, sorghum, small grain cereals, rapeseed (canola varieties only), legume vegetables (succulent and dried), root vegetables, bulb vegetables, leafy vegetables, Brassica (cole) leafy vegetables, fruiting vegetables, cucurbit vegetables, herbs and spices, and leaf petiole vegetables

Active Ingredient:	
Picarbutrazox*	36.0%
Other Ingredients:	64.0%
Total:	100.0%

*CAS No. 500207-04-5

Vayantis® is a flowable concentrate for seed treatment containing 3.3 pounds picarbutrazox per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1635

EPA Est.

Net Contents

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

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1.0 FIRST AID

FIRST AID	
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 by mouth 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.
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 continuing rinsing.• 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	

2.0 PRECAUTIONARY STATEMENTS

2.1 Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. 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 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: barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, Viton™ ≥14 mils
- Shoes plus socks

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, enclosed cabs, or aircraft 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

Users should:

- 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 bodies when disposing of equipment washwater or rinsate. Treated seed exposed on soil surface may be hazardous to wildlife. Cover or collect seeds spilled during loading.

DIRECTIONS FOR USE

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

For use in commercial seed treatment facilities. Use is also permitted as an end-use seed treatment on agricultural establishments before planting. **DO NOT** use for at-plant applications (e.g., hopper box, planter box, etc.). This product is to be used in liquid or slurry treaters only.

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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE, PRECAUTIONS AND RESTRICTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/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), notifications to workers, 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 4 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: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, Viton ≥ 14 mils
- Shoes plus socks

3.0 PRODUCT INFORMATION

Vayantis is a seed treatment fungicide which provides early season protection against Pythium and Phytophthora causing seed rot and damping-off. Where rate ranges are shown, use the higher rate when disease pressure is expected to be severe.

3.1 Resistance Management

For resistance management, Vayantis contains picarbutrazox, a Group U17 fungicide. Any fungal population may contain individuals naturally resistant to Vayantis and other Group U17 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies must be followed.

To delay fungicide resistance: Where possible, rotate the use of Vayantis or other Group U17 fungicides with different groups that control the same pathogens.

Vayantis is a U17 fungicide; therefore, continuous or sequential use of U17 fungicides within or during successive growing seasons must be avoided or reduced. Vayantis is not cross-resistant with other classes of fungicide that have different modes of action.

Seed treatment use must be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.

Monitor treated fungal populations for sign of resistance development. If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM information for specific crops and disease problems in your area.

For further information or to report suspected resistance, contact Syngenta company representatives at 1-866-796-4368.

4.0 APPLICATION DIRECTIONS

Important: Always homogenize Vayantis thoroughly before using, either by shaking or recirculation.

Apply Vayantis 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 disease control. Thoroughly mix the specified amount of Vayantis into the required amount of water for the slurry treater and dilution rate to be used. Follow the manufacturer application instructions for the seed treatment equipment being used. Use an EPA-approved dye or colorant that imparts an unnatural color to the seed as stated in 40 CFR 153.155 (c).

Follow the label directions for the most restrictive of label precautions and limitations. This product cannot be mixed with any product containing a label prohibition against such mixing.

The typical density of Vayantis is 9.17 pounds of formulated product 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.

Consult slurry application partners for total slurry volume recommendations. The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants.

Allow seed to dry before bagging.

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

4.1 TANK MIXES

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.

Mixing Vayantis with tank-mix partners: Add 1/2 of the required water to the mix tank and turn on the agitation. Mechanical agitation is preferred. Follow WALES method for mixing order of seed treatment 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.

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

Corn: For additional protection from certain seed-borne and soil-borne pathogens, Vayantis may be combined with seed treatment products containing mefenoxam, azoxystrobin, fludioxonil, sedaxane and/or thiabendazole. For insect protection, Vayantis may be tank mixed with seed treatment products containing thiamethoxam or cyantraniliprole. For nematode protection in addition to comprehensive fungicide defense and insect protection, Vayantis may be tank mixed with seed treatment products containing abamectin, thiamethoxam, thiabendazole, fludioxonil, mefenoxam, and azoxystrobin.

Soybeans: For additional protection from certain seed-borne and soil-borne pathogens, Vayantis may be combined with seed treatment products containing mefenoxam, azoxystrobin, fludioxonil, thiabendazole, pydiflumetofen or sedaxane. For insect protection, Vayantis may be tank mixed with seed treatment products containing thiamethoxam or cyantraniliprole. For nematode protection in addition to comprehensive fungicide defense and insect protection, Vayantis may be tank mixed with seed treatment products containing *Pasteuria nishizawae* or abamectin, and thiamethoxam, mefenoxam, fludioxonil, and/or sedaxane. Vayantis is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying Vayantis with inoculants.

Cereals: For additional protection from certain seed-borne and soil-borne pathogens, Vayantis may be combined with seed treatment products containing pydiflumetofen, mefenoxam, difenoconazole, fludioxonil, thiabendazole and/or sedaxane. For insect protection, Vayantis may be tank mixed with seed treatment products containing thiamethoxam.

Sorghum: For additional control of certain seed and soil borne diseases, Vayantis may be combined with seed treatment products containing azoxystrobin, fludioxonil, mefenoxam, and sedaxane.

Legumes: For additional protection from certain seed-borne and soil-borne pathogens, Vayantis may be combined with seed treatment products containing pydiflumetofen, mefenoxam, fludioxonil, thiabendazole and/or sedaxane. For insect protection, Vayantis may be tank mixed with seed treatment products containing thiamethoxam.

Cotton: For additional control of certain seed and soil borne diseases, Vayantis may be combined with a seed treatment product containing azoxystrobin, fludioxonil, mefenoxam, and sedaxane.

Vegetables: For additional control of certain seed and soil borne diseases, Vayantis may be combined with the seed treatment products containing azoxystrobin, fludioxonil, and mefenoxam or azoxystrobin, fludioxonil, mefenoxam, and thiabendazole. In combination with these fungicides, Vayantis may also be mixed with seed treatments containing thiamethoxam and/or spinosad for early season protection of insect pests.

4.1.1 Tank Mix Compatibility

When mixing Vayantis with other seed treatment products, test the compatibility prior to use by conducting a jar test: mix all intended seed treatments with the appropriate amount of water in a clear glass container. Mix well and allow mixture to sit for one hour. Remix and observe for incompatibility.

5.0 ROTATIONAL CROP RESTRICTIONS

In the event of crop failure or harvest of a crop grown from picarbutrazox treated seed, the field may be replanted immediately with labeled crops; all other crops - 30 days.

6.0 RESTRICTIONS

- **DO NOT** use for at-plant applications (e.g., hopper box, planter box, etc.). This product is to be used in liquid or slurry treaters only.
- **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift.
- 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.
- **DO NOT** use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year.
- For corn and/or soybean seed treated with Vayantis, **DO NOT** make more than 2 plantings on the same acres per year.
- Store away from food and feedstuffs.
- **DO NOT** allow children, pets, or livestock to have access to treated seeds.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- 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 washwater.
- For the following seed types, treated seed must be planted into the soil at a depth greater than or equal to 1 inch: Corn, soybeans, small grain cereals, sorghum, Edible-Podded Legume Vegetables Crop Subgroup 6A, Succulent Shelled Pea and Bean Crop Subgroup 6B, Dried Shelled Pea and Bean (except Soybean) Crop Subgroup 6C, Cotton
- For the following seed types, treated seed must be planted into the soil at a depth greater than or equal to 1/2 inch: Cucurbit Vegetables Crop Group 9, Rapeseed (including Canola) Crop Subgroup 20A
- For the following seed types, treated seed must be planted into the soil at a depth greater than or equal to 1/4 inch: Root Vegetables Crop Subgroup 1A, Tuberous and Corm Vegetables (except potato) Crop Subgroup 1D, Leaves of Root and Tuber (except potato) Crop Group 2, Bulb Vegetable Crop Group 3-07, Brassica Head and Stem Vegetable Crop Group 5-16, Fruiting Vegetables Crop Group 8-10
- For the following seed types, treated seed must be planted into the soil at a depth greater than or equal to 1/8 inch: Leafy vegetables Crop Group 4-16; Stalk, Stem, and Leaf Petiole Vegetable Crop Group 22; Herb Crop Group 25; Spice Crop Group 26

7.0 SEED CONTAINER 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 picarbutrazox fungicide.
- **DO NOT** use for feed, food, or oil purposes.
- 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 seed treated with Vayantis:

- Store away from food and feedstuffs.
- **DO NOT** allow children, pets, or livestock to have access to treated seeds.
- 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.
- For the following seed types, treated seed must be planted into the soil at a depth greater than or equal to 1 inch: Corn, soybeans, small grain cereals, sorghum, Edible-Podded Legume Vegetables Crop Subgroup 6A, Succulent Shelled Pea and Bean Crop Subgroup 6B, Dried Shelled Pea and Bean (except Soybean) Crop Subgroup 6C, Cotton
- For the following seed types, treated seed must be planted into the soil at a depth greater than or equal to 1/2 inch: Cucurbit Vegetables Crop Group 9, Rapeseed (including Canola) Crop Subgroup 20A
- For the following seed types, treated seed must be planted into the soil at a depth greater than or equal to 1/4 inch: Root Vegetables Crop Subgroup 1A, Tuberos and Corm Vegetables (except potato) Crop Subgroup 1D, Leaves of Root and Tuber (except potato) Crop Group 2, Bulb Vegetable Crop Group 3-07, Brassica Head and Stem Vegetable Crop Group 5-16, Fruiting Vegetables Crop Group 8-10
- For the following seed types, treated seed must be planted into the soil at a depth greater than or equal to 1/8 inch: Leafy vegetables (except Watercress) Crop Group 4-16; Stalk, Stem, and Leaf Petiole Vegetable Crop Group 22; Herb Crop Group 25; Spice Crop Group 26
- 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 washwater.
- Dispose of seed packaging in accordance with local requirements.
- In the event of crop failure or harvest of a crop grown from picarbutrazox treated seed, the field may be replanted immediately to the following crops: Corn; Soybeans; Cereals, Small Grains (Barley, Buckwheat, Oats, Pearl Millet, Proso Millet, Rye, Teosinte, Triticale, Wheat); Sorghum; Root Vegetables Crop Subgroup 1A, Tuberos and Corm Vegetables (except potato) Crop Subgroup 1D; Leaves of Root and Tuber Vegetables Crop

Group 2; Bulb Vegetable Group Crop Group 3-07; Leafy Vegetables (Except Watercress) Crop Group 4-16; Brassica Head and Stem Vegetables Crop Group 5-16; Edible-Podded Legume Vegetables Crop Subgroup 6A; Succulent Shelled Pea and Bean Crop Subgroup 6B; Dried Shelled Pea and Bean (Except Soybean) Crop Subgroup 6C; Fruiting Vegetables Crop Group 8-10; Cucurbit Vegetables Crop Group 9; Rapeseed (including Canola) - Crop Subgroup 20A; Cotton; and Stalk, Stem and Leaf Petiole Vegetable Group (Crop Group 22). For all other crops, the minimum plant back interval is 30 days.

- 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.
- This seed has been treated with the following amount of picarbutrazox:
 - Corn – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
 - Soybeans – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
 - Small grain cereals (barley, buckwheat, oats, pearl millet, proso millet, rye, teosinte, wheat) – 1.25-2.5 g ai/100 kg seed (0.00125-0.0025 lb ai/100 lb seed)
 - Sorghum – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
 - Root Vegetables Crop Subgroup 1A, Tuberous and Corm Vegetables (except potato) Crop Subgroup 1D – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
 - Leaves of Root and Tuber Vegetables Crop Group 2 – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
 - Bulb Vegetable Group Crop Group 3-07 – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
 - Leafy Vegetables (except watercress) Crop Group 4-16 – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
 - Brassica Head and Stem Vegetables Crop Group 5-16 – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
 - Edible-Podded Legume Vegetables Crop Subgroup 6A – 1.25-5.15 g ai/100 kg seed (0.00125-0.00515 g ai/100 lb seed)
 - Succulent Shelled Pea and bean Crop Subgroup 6B – 1.25-5.15 g ai/100 kg seed (0.00125-0.00515 g ai/100 lb seed)
 - Dried Shelled Pea and Bean (except Soybean) Crop Subgroup 6C – 1.25-5.15 g ai/100 kg seed (0.00125-0.00515 g ai/100 lb seed)
 - Fruiting Vegetables Crop Group 8-10 – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
 - Cucurbit Vegetables Crop Group 9 – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
 - Rapeseed (including Canola) Crop Subgroup 20A – 1.25-5.15 g ai/100 kg seed (0.00125-0.00515 g ai/100 lb seed)
 - Cotton – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
 - Stalk, Stem, and Leaf Petiole Vegetable Group Crop Group 22 – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
 - Herb Crop Group 25 – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)

- Spice Crop Group 26 – 1-10 g ai/100 kg seed (0.001-0.01 lb ai/100 lb seed)
- **DO NOT** use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year.
- For corn and/or soybean seed treated with Vayantis, **DO NOT** make more than 2 plantings on the same acres per year.

8.0 CROP USE DIRECTIONS

8.1 Corn[*]

Crops	Diseases	USE RATE			
		fl oz/ 100 lb seed	fl oz/ 80,000 seeds unit	mg ai/seed	g ai/100 kg seed
Corn, includes field corn, sweet corn, popcorn and seed production	<i>Pythium</i> spp.	0.039 – 0.39	0.017 – 0.172	0.0025 – 0.025	1 – 10
Resistance Management:					
<ul style="list-style-type: none"> Refer to Section 3.1. 					
The mg ai per seed, fl oz Vayantis per 100 lb seed, and fl oz Vayantis per 80,000 seeds rates are based on 1,800 seeds per pound.					
USE RESTRICTIONS					
1) DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 2) DO NOT make more than 2 plantings on the same acres per year.					

[*][Not for use in California.]

8.2 Soybeans[*]

Crops	Diseases	USE RATE			
		fl oz/ 100 lb seed	fl oz/ 140,000 seeds unit	mg ai/seed	g ai/100 kg seed
Soybeans	<i>Pythium</i> spp.[*] <i>Phytophthora</i> spp. [*]	0.039 - 0.39	0.018 – 0.182	0.0015 – 0.015	1 – 10
Resistance Management:					
<ul style="list-style-type: none"> Refer to Section 3.1. 					
The mg ai per seed, fl oz Vayantis per 100 lb seed, and fl oz Vayantis per 140,000 seeds rates are based on 3,000 seeds per pound.					
USE RESTRICTIONS					
<ol style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. DO NOT make more than 2 plantings on the same acres per year. 					

[*][Not for use in California.]

8.3 Cereals, Small Grains (Barley, Buckwheat, Oats, Pearl Millet, Proso Millet, Rye, Teosinte, Triticale, Wheat)[*]

Crops	Diseases	USE RATE	
		fl oz/100 lb seed (lb ai/100 lb seed)	mL/100 kg seed (g ai/100 kg seed)
Small Grain Cereals (includes forage, fodder and straw of cereal grains) Barley Buckwheat Oats Pearl Millet Proso Millet Rye Teosinte Triticale Wheat	Pythium root rot due to <i>Pythium</i> spp. ¹	0.05 - 0.10 (0.00125 - 0.0025)	3.13 – 6.26 (1.25 – 2.5)
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1. 			
¹ Use the higher rate when disease pressure is expected to be severe.			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 			

[*][Not for use in California.]

8.4 Sorghum[*]

Crops		
Sorghum		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL® (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

8.5 Root Vegetables Crop Subgroup 1A[*]

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>)	
Celeriac (celery root) (<i>Apium graveolens</i> var. <i>rapaceum</i>)	Salsify (oyster plant) (<i>Tragopogon porrifolius</i>)	
Chervil, turnip-rooted (<i>Chaerophyllum bulbosum</i>)	Salsify, black (<i>Scorzonera hispanica</i>)	
Chicory (<i>Cichorium intybus</i>)	Salsify, Spanish (<i>Scolymus hispanicus</i>)	
Ginseng (<i>Panax quinquefolius</i>)	Skirret (<i>Sium sisarum</i>)	
Horseradish (<i>Armoracia rusticana</i>)	Turnip (<i>Brassica rapa</i> var. <i>rapa</i>)	
Parsley, turnip-rooted (<i>Petroselinum crispum</i> var. <i>tuberosum</i>)		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
<ul style="list-style-type: none"> Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control Excludes seed piece treatment. 		

[*][Not for use in California.]

8.6 Tuberos and Corm Vegetables (except potato) Crop Subgroup 1D[*]

Crops		
Arracacha (<i>Arracacia xanthorrhiza</i>)	Dasheen (Taro) (<i>Colocasia esculenta</i>)	
Arrowroot (<i>Maranta arundinacea</i>)	Ginger (<i>Zingiber officinale</i>)	
Artichoke, Chinese (<i>Stachys affinis</i>)	Leren (<i>Calathea allouia</i>)	
Artichoke, Jerusalem (<i>Helianthus tuberosus</i>)	Sweet Potato (<i>Ipomoea batatas</i>)	
Canna, Edible (Queensland arrowroot) (<i>Canna indica</i>)	Tanier(cocoyam) (<i>Xanthosoma sagittifolium</i>)	
Cassava, Bitter & Sweet (<i>Manihot esculenta</i>)	Turmeric (<i>Curcuma longa</i>)	
Chayote (root) (<i>Sechium edule</i>)	Yam Bean (jicama, manioc pea) (<i>Pachyrhizus</i> spp.)	
Chufa (<i>Cyperus esculentus</i>)	Yam, True (<i>Dioscorea</i> spp.)	
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
<ul style="list-style-type: none"> Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control Excludes seed piece treatment. 		

[*][Not for use in California.]

8.7 Leaves of Root and Tuber Vegetables 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.)	
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
1) DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 2) DO NOT feed to livestock.		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

8.8 Bulb Vegetable Group Crop Group 3-07[*]

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, <i>A. 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> , <i>L. lancifolium</i>)		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 - 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

8.9 Leafy Vegetables (Except Spinach and Watercress) Crop Group 4-16[*]

Crops		
Amaranth, Chinese	Cress, upland	Orach
Amaranth, leafy	Dandelion, leaves	Parsley, fresh leaves
Arugula	Dang-gwi, leaves	Plantain, buckhorn
Aster, Indian	Dillweed	Primrose, English
Blackjack	Dock	Purslane, garden
Broccoli, Chinese	Dol-nam-mul	Purslane, winter
Broccoli raab	Ebolo	Radicchio
Cabbage, Abyssinian	Endive	Radish, leaves
Cabbage, Chinese, bok choy	Escarole	Rape greens
Cabbage, seakale	Fameflower	Rocket, wild
Cat's whiskers	Feather cockscomb	Shepherd's purse
Cham-chwi	Good King Henry	Spinach, Malabar
Cham-na-mul	Hanover salad	Spinach, New Zealand
Chervil, fresh leaves	Huauzontle	Spinach, tancier
Chipilin	Jute, leaves	Swiss chard
Chrysanthemum, garland	Kale	Turnip greens
Cilantro, fresh leaves	Lettuce, bitter	Violet, Chinese, leaves
Collards	Lettuce, head	Cultivars, varieties, and hybrids of these commodities
Corn salad	Lettuce, leaf	
Cosmos	Maca, leaves	
Cress, garden	Mizuna	
	Mustard greens	
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

8.10 Spinach[*]

Crops		
Spinach (<i>Spinacia oleracea</i>)		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off		
Seeding rate <3,000,000 seeds/A	0.034-0.384	1 – 10
Seeding rate <4,000,000 seeds/A	0.034-0.307	1 – 8
Seeding rate <8,000,000 seeds/A	0.034-0.230	1 – 6
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

8.11 Brassica Head and Stem Vegetables Crop Group 5-16[*]

Crops		
Broccoli Brussels sprouts Cabbage Cabbage, Chinese (napa)	Cauliflower Cultivars, varieties, and hybrids of these commodities	
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

8.12 Edible-Podded Legume Vegetables Crop Subgroup 6A[*]

Crops	Diseases	USE RATE	
		fl oz/100 lb seed (lb ai/100 lb seed)	mL/100 kg seed (g ai/100 kg seed)
Pea (<i>Pisum spp.</i>) (includes dwarf pea, edible-pod pea, snow pea, sugar snap pea)	Pythium seed rot, root rot, seedling rot and damping off due to <i>Pythium spp.</i> ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15)
Bean (<i>Phaseolus spp.</i>) (includes runner bean, snap bean, and wax bean) Bean (<i>Vigna spp.</i>) (includes asparagus bean, Chinese longbean, moth bean, yardlong bean) Jackbean (<i>Canavalia ensiformis</i>) Pea (<i>Pisum spp.</i>) (includes dwarf pea, edible-pod pea, snow pea, sugar snap pea) Pigeon pea (<i>Cajanus cajan</i>) Soybean (immature seed) (<i>Glycine max</i>) Sword bean (<i>Canavalia gladiata</i>)	Pythium diseases due to <i>Pythium spp.</i> ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15)
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
¹ When planting more susceptible varieties or when disease pressure is expected to be severe use higher rates.			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 			

[*][Not for use in California.]

8.13 Succulent Shelled Pea and Bean Crop Subgroup 6B[*]

Crops	Diseases	USE RATE	
		fl oz/100 lb seed (lb ai/100 lb seed)	mL/100 kg seed (g ai/100 kg seed)
Pea (<i>Pisum spp.</i>) (includes English pea, garden pea, green pea)	Pythium seed rot, root rot, seedling rot and damping off due to <i>Pythium spp.</i> ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15)
Bean (<i>Phaseolus spp.</i>) (includes lima bean (green)) Bean (<i>Vigna spp.</i>) (includes blackeyed pea, cowpea, southern pea) Broad bean (fava bean) (<i>Vicia faba</i>) Pigeon pea (<i>Cajanus cajan</i>)	Pythium diseases due to <i>Pythium spp.</i> ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15)
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
¹ When planting more susceptible varieties or when disease pressure is expected to be severe use higher rates			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 			

[*][Not for use in California.]

8.14 Dried Shelled Pea and Bean (Except Soybean) Crop Subgroup 6C[*]

Crops	Diseases	USE RATE	
		fl oz/100 lb seed (lb ai/100 lb seed)	mL/100 kg seed (g ai/100 kg seed)
Chickpea (garbanzo bean) (<i>Cicer arietinum</i>) Lentil (<i>Lens esculenta</i>) Pea (<i>Pisum spp.</i>) (includes field pea)	Pythium seed rot, root rot, seedling rot and damping off due to <i>Pythium spp.</i> ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15)
Bean (<i>Lupinus spp.</i>) (includes grain lupin, sweet lupin, white lupin and white sweet lupin) Bean (<i>Phaseolus spp.</i>) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean) Bean (<i>Vigna spp.</i>) (includes adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean) Broad bean (dry) (fava bean) (<i>Vicia faba</i>) Guar (<i>Cyamopsis tetragonoloba</i>) Lablab bean (hyacinth bean) (<i>Lablab purpureus</i>) Pigeon pea (<i>Cajanus cajan</i>)	Pythium diseases due to <i>Pythium spp.</i> ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15)
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1. 			
¹ When planting more susceptible varieties or when disease pressure is expected to be severe use higher rates			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 			

[*][Not for use in California.]

8.15 Fruiting Vegetables Crop Group 8-10[*]

Crops		
African eggplant	Groundcherry	Roselle
Bush tomato	Martynia	Scarlet eggplant
Bell pepper	Naranjilla	Sunberry
Cocona	Okra	Tomatillo
Currant tomato	Pea eggplant	Tomato
Eggplant	Pepino	Tree tomato
Garden huckleberry	Non-bell pepper	Cultivars, varieties, and/or hybrids of these
Goji berry		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

8.16 Cucurbit Vegetables Crop Group 9[*]

Crops		
Chayote (fruit) (<i>Sechium edule</i>)	Muskmelon	Squash, summer (<i>Cucurbita pepo</i> var. <i>melo</i>)
Chinese waxgourd (Chinese preserving melon) (<i>Benincasa hispida</i>)	(hybrids and/or cultivars of <i>Cucumis melo</i>)	Crookneck squash
Citron melon (<i>Citrullus lanatus</i> var. <i>citroides</i>)	Cantaloupe	Scallop squash
Cucumber (<i>Cucumis sativus</i>)	Casaba	Straightneck squash
Gherkin (<i>Cucumis anguria</i>)	Crenshaw melon	Vegetable marrow
Gourd, edible (<i>Lagenaria</i> spp.)	Golden pershaw melon	Zucchini
Hyotan	Honeydew melon	Squash, winter (<i>Cucurbita maxima</i> , <i>C. moschata</i>)
Cucuzza	Honey balls	Butternut squash
Gourd, edible (<i>Luffa acutangula</i> , <i>L. cylindrical</i>)	Mango melon	Calabaza
Hechima	Persian melon	Hubbard squash
Chinese okra	Pineapple melon	Squash, winter (<i>Cucurbita mixta</i> , <i>C. pepo</i>):
<i>Momordica</i> spp.	Santa Claus melon	Acorn squash
Balsam apple	Snake melon	Spaghetti squash
Balsam pear	True cantaloupe	Watermelon (hybrids and/or varieties of <i>Citrullus lanatus</i>)
Bittermelon	Pumpkin (<i>Cucurbita</i> spp.)	
Chinese cucumber		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

8.17 Rapeseed (including Canola) - Crop Subgroup 20A[*]

Crops (Including cultivars, varieties, and/or hybrids of these)	Diseases	USE RATE	
		fl oz/100 lb seed (lb ai/100 lb seed)	mL/100 kg seed (g ai/100 kg seed) µg ai/seed
Borage Canola Crambe Cuphea Echium Flax seed Gold of pleasure Hare's ear mustard Lesquerella Lunaria Meadowfoam Milkweed Mustard seed Oil radish Poppy seed Rapeseed Sesame Sweet rocket	Root rot, seed rot and damping off due to <i>Pythium</i> spp. ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15) 0.0625 - 0.25 µg ai/seed ²
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
¹ When planting more susceptible varieties or when disease pressure is expected to be severe use higher rates.			
² Based on 5g/1,000 (90,800 seeds/lb) seed weight			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 			

[*][Not for use in California.]

8.18 Cotton[*]

Crops		
Cotton		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) and Dynasty® (containing azoxystrobin, EPA Reg No. 100-1159) for increased Pythium control		

[*][Not for use in California.]

8.19 Stalk, Stem and Leaf Petiole Vegetable Group (Crop Group 22)[*]

Crops		
Agave (<i>Agave</i> spp.)	Fern, edible, fiddlehead	
Aloe vera (<i>Aloe vera</i> (L.) Burm.f.)	Fuki	
Asparagus (<i>Asparagus officinalis</i> L.)	Kale, sea (<i>Crambe maritima</i> L.)	
Bamboo, shoots (<i>Arundinaria</i> spp.; <i>Bambusa</i> spp., <i>Chimonobambusa</i> spp.; <i>Dendrocalamus</i> spp., <i>Fargesia</i> spp.; <i>Gigantochloa</i> spp., <i>Nastus elatus</i> ; <i>Phyllostachys</i> spp.; <i>Thyrsostachys</i> spp.)	Kohlrabi (<i>Brassica oleracea</i> L. var. <i>gongylodes</i> L.)	
Cardoon	Palm hearts (various species)	
Celery (<i>Apium graveolens</i> var. <i>dulce</i>)	Prickly pear, pads (<i>Opuntia ficus-indica</i> (L.) Mill., <i>Opuntia</i> spp.)	
Celery, Chinese (<i>Apium graveolens</i> var. <i>secalinum</i>)	Prickly pear, Texas, pads (<i>Opuntia engelmannii</i> Salm-Dyck ex Engelm. var. <i>lindheimeri</i> (Engelm.) B.D. Parfitt & Pinkav)	
Celtuce (<i>Lactuca sativa</i> var. <i>angustana</i>)	Rhubarb (<i>Rheum x rhabarbarum</i> L.)	
Fennel, Florence, fresh leaves and stalk (<i>Foeniculum vulgare</i> subsp. <i>vulgare</i> var. <i>azoricum</i> (Mill.) Thell.)	Udo (<i>Aralia cordata</i> Thunb.)	
	Zuiki (<i>Colocasia gigantea</i> (Blume) Hook. F.)	
	Cultivars, varieties, and hybrids of these commodities	
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

8.20 Herb Crop Group 25[*]

Crops			
Agrimony	Creat	Lemongrass	Pipsissewa
Amla	Culantro	Lovage	Plantain, common
Angelica	Curry leaf	Love-in-a-mist	Rooibos
Angelica, dahurian	Curryplant	Mamaki	Rose
Applemint	Cut leaf	Marigold	Rosemary
Avarum	Damiana	Marigold, African	Sage
Balloon pea	Dillweed	Marigold, Aztec	Sage, Greek
Balm	Dokudami	Marigold, French	Sage, Spanish
Barrenwort	Echinacea	Marigold, Irish lace	Sage, white
Basil	Epazote	Marigold, licorice	Savory, summer
Basil, American	Eucommia	Marigold, Mexican mint	Savory, winter
Basil, Greek	Evening primrose	Marigold Mexican mint	Senna
Basil, holy	Eyebright	Marigold, signet	Siberian fir
Basil, lemon	Fennel, common	Marjoram	Skullcap
Basil, Russian	Fennel, Florence	Marjoram, pot	Small flower willow
Bay	Fennel, Spanish	Marjoram, sweet	head
Bearberry	Fenugreek	Marshmallow	Sorrel
Bisongrass	Feverfew	Meadowsweet	Sorrel, French
Blue mallow	Field pennycress	Mint	Sorrel, garden
Boneset	Flowers, edible,	Mint, corn	Southernwood
Borage	multiple species	Mint, Korean	Spearmint
Borage, Indian	Fumitory	Mint Korean	Spearmint, Scotch
Burnet	Galbanum	Monarda	Spilanthes
Burnet, garden	Galega	Moringa	Spotted beebalm
Burnet, salad	Gambir	Motherwort	St. John's Wort
Butterbur	Geranium	Mountainmint	Stevia
Calamint	Geranium, lemon	Mountainmint,	Stoneroot
Calamint, large-flower	Geranium, rose	clustered	Swamp leaf
Calamint, lesser	Germander, golden	Mountainmint, hoary	Tansy
Calendula	Goldenrod, European	Mountainmint, Virginia	Tarragon
Caltrop	Goldenseal	Mountainmint, whorled	Thuja
Camomile (Chamomile)	Gotu kola	Mugwort	Thyme
Camomile	Greater periwinkle	Mulberry, white	Thyme, creeping
(Chamomile),	Guayusa	Mullein	Thyme, lemon
German	Guyana	Mustard, hedge	Thyme, mastic
Camomile	Gumweed	Nasturtium	Toon, Chinese
(Chamomile), Roman	Gymnema	Nasturtium, bush	Toothed clubmoss
Caraway	Gypsywort	Nasturtium, garden	Trailing arbutus
Cat's claw	Hawthorn	Nettle, stinging	Vasaka
Catnip	Heal-all	Oregano	Verbena, blue
Catnip, Japanese	Hemp nettle	Oregano, Mexican	Veronica
Celandine, greater	Honewort	Oregano, Puerto Rico	Violet
Celandine, lesser	Honeybush	Oswego tea	Watermint
Celery	Horehound	Oswego teat	Waterpepper
Centaury	Horsemint	Pandan leaf	Wild bergamot
Chaste tree	Horsetail	Pansy	Wintergreen
Chaste tree, Chinese	Hyssop	Paracress	Wood betony
Chervil	Hyssop, anise	Parsley	Woodruff
Chinese blackberry	Indian tobacco	Partridge berry	Wormwood
Chinese foxglove	Ironwort	Patchouli	Wormwood, Roman
Chive	Ivy	Pennyroyal	Yarrow
Chive, Chinese	Jamaica dogwood	Pepper leaf, black	Yellow gentian
Cicely, sweet	Jasmine	Peppermint	Yerba santa
Cilantro	Labrador tea	Perilla	Yomogi

Crops			
Clary Coriander, Bolivian Coriander, Vietnamese Costmary	Lavender Lemon verbena	Pill bearing spurge	Cultivars, varieties, and hybrids of these commodities
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)	
Pythium Damping-off	0.0384 – 0.384	1 – 10	
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 			

[*][Not for use in California.]

8.21 Spice Crop Group 26[*]

Crops			
Ajowan, seed	Chervil, seed	Gum ghatti	Pepper, white
Alder buckhorn	Chinese hawthorn	Gum karaya	Pepperbush, berry
Allspice	Chinese nutmeg tree	Gum tragacanth	Pepperbush, leaf
Ambrette, seed	Chinese wineberry, fruit	Haw, black	Peppercorn, green
Amla, seed	Chinese-pepper	Honewort, seed	Peppertree
Angelica, dahurian, seed	Cinnamon, bark	Imperatoria	Peppertree, Peruvian
Angelica, seed	Cinnamon, fruit	Indian tobacco, seed	Perilla, seed
Angostura, bark	Cinnamon, Saigon, bark	Iva	Phellodendron
Anise pepper	Cinnamon, Saigon, fruit	Jalap	Pine, maritime
Anise, seed	Clove buds	Jamaica dogwood, bark	Poppy, seed
Anise, star	Clusterleaf	Juniper berry	Prickly ash, Chinese
Annatto, seed	Comfrey	Kaffir lime, leaf	Prickly ash, Southern, bark
Asafoetida	Copaiba	Kewra	Pygeum
Ashwagandha, fruit	Coptis	Kokam	Qing hua jiao
Autumn crocus	Coriander, fruit	Linden, leaf	Quassia, bark
Balsam, Peruvian	Coriander, seed	Lovage, seed	Quebracho, bark
Barberry, bark	Cotton, bark	Mace	Quillaja
Batavia-cassia, bark	Crampbark	Magnolia, bark	Quinine
Batavia-cassia, fruit	Cubeb, seed	Mahaleb	Rauwolfia, bark
Belleric myrobalan	Culantro, seed	Malabar cardamom	Resin spurge
Betel vine	Culvers root	Malabar-tamarind	Rue
Birch, bark	Cumin	Malabathrum	Saffron crocus
Bisnaga, seed	Cumin, black	Mastic	Sandalwood, seed
Bitterwood	Dill, seed	Micromeria, white	Sassafras, bark
Black bread weed	Dorrigo pepper, berry	Milk thistle	Sassafras, leaf
Bloodroot	Dorrigo pepper, leaf	Mioga	Saunders, red
Blue mallee	Dragon blood	Miracle fruit	Saw palmetto
Blushwood, seed	Echinacea, seed	Mistletoe	Sesame, seed
Boldo, leaf	Epimedium	Mojave yucca	Silktree, bark
Buchu	Eucalyptus	Muiria puama	Simaruba, bark
Calamus root	Eucommia, bark	Mustard, black	Skunk cabbage, root
Candlebush	European beech	Mustard, brown	Slippery elm
Canella, bark	Felty germander	Mustard, seed	Stemona, root
Caper buds	Fennel flower, seed	Mustard, white	Suma
Caper spurge, seed	Fennel, common, fruit	Myrrh	Sumac, fragrant
Caraway, black	Fennel, common, seed	Myrrh, bisabol	Sumac, smooth, leaf
Caraway, fruit	Fennel, Florence, fruit	Myrtle, anise	Taheebo, bark
Cardamom, black	Fennel, Florence, seed	Myrtle, leaf	Tamarind, seed
Cardamom, Ethiopian	Fenugreek, seed	Myrtle, lemon	Tasmanian pepper, berry
Cardamom, green	Fingerroot	Nasturtium, bush, pods	Tasmanian pepper, leaf
Cardamom, Nepal	Flame lily, seed	Nasturtium, garden, pods	Threeleaf caper
Cardamom-amomum	Frankincense	Nasturtium, pods	Tsaoko
Cascara sagrada	Frankincense, Indian	Nettle, stinging, seed	Vanilla
Cassia, bark	Fringetree, bark	Nutmeg	Wattleseed
Cassia, Chinese, bark	Galbanum, resin	Osha	White willow
Cassia, Chinese, fruit	Gambooge	Pepper, black	Willow
Cassia, fruit	Grains of paradise	Pepper, Indian long	Witch hazel
Cat's claw, bark	Grains of Selim	Pepper, Javanese long	Yaw root
Catechu, bark	Guaiac	Pepper, leaf	Yellow gentian, roots
Celery, seed	Guarana	Pepper, pink	Yohimbe
Chaste tree, berry	Guggul	Pepper, Sichuan	
Chaste tree, Chinese, roots	Gum Arabic		

Crops		
		Cultivars, varieties, and hybrids of these commodities
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		

[*][Not for use in California.]

9.0 STORAGE AND DISPOSAL

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

Pesticide Storage

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

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 and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ 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 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.

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 IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER

10.0 CONDITIONS OF SALE AND LIMITATION OF 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.

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Viton™ is a trademark of The Chemours Company FC, LLC
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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

SUPPLEMENTAL LABELING

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

SCP

PICARBUTRAZOX | **GROUP** **U17** | **FUNGICIDE**

Vayantis®

Fungicide

This supplemental label expires on 06/30/2025 and must not be used or distributed after this date.

Active Ingredient:	
Picarbutrazox*	36.0%
Other Ingredients:	64.0%
Total:	100.0%

*CAS No. 500207-04-5

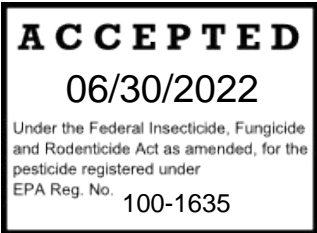
Vayantis® is a flowable concentrate for seed treatment containing 3.3 pounds picarbutrazox per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Reg. No. 100-1635

All applicable directions, restrictions, and precautions on the EPA-registered label are to be followed. Before using Vayantis as permitted according to this supplemental label, read and follow all applicable directions, restrictions, and precautions on the EPA-registered label on or attached to the pesticide product container. This Supplemental Labeling contains revised use instructions and/or restrictions that may be different from those that appear on the container label. This Supplemental Labeling must be in the possession of the user at the time of pesticide application. It is a violation of federal law to use this product in a manner inconsistent with its labeling.



CROP USE DIRECTIONS

Cereals, Small Grains (Barley, Buckwheat, Oats, Pearl Millet, Proso Millet, Rye, Teosinte, Triticale, Wheat)[*]

Crops	Diseases	USE RATE	
		fl oz/100 lb seed (lb ai/100 lb seed)	mL/100 kg seed (g ai/100 kg seed)
Small Grain Cereals (includes forage, fodder and straw of cereal grains) Barley Buckwheat Oats Pearl Millet Proso Millet Rye Teosinte Triticale Wheat	Pythium root rot due to <i>Pythium</i> spp. ¹	0.05 - 0.10 (0.00125 - 0.0025)	3.13 – 6.26 (1.25 – 2.5)
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1. 			
¹ Use the higher rate when disease pressure is expected to be severe.			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 			

[*][Not for use in California.]

Sorghum[*]

Crops		
Sorghum		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL® (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

Root Vegetables Crop Subgroup 1A[*]

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>)	
Celeriac (celery root) (<i>Apium graveolens</i> var. <i>rapaceum</i>)	Salsify (oyster plant) (<i>Tragopogon porrifolius</i>)	
Chervil, turnip-rooted (<i>Chaerophyllum bulbosum</i>)	Salsify, black (<i>Scorzonera hispanica</i>)	
Chicory (<i>Cichorium intybus</i>)	Salsify, Spanish (<i>Scolymus hispanicus</i>)	
Ginseng (<i>Panax quinquefolius</i>)	Skirret (<i>Sium sisarum</i>)	
Horseradish (<i>Armoracia rusticana</i>)	Turnip (<i>Brassica rapa</i> var. <i>rapa</i>)	
Parsley, turnip-rooted (<i>Petroselinum crispum</i> var. <i>tuberosum</i>)		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
<ul style="list-style-type: none"> Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control Excludes seed piece treatment. 		

[*][Not for use in California.]

Tuberous and Corm Vegetables (except potato) Crop Subgroup 1D [*]

Crops		
Arracacha (<i>Arracacia xanthorrhiza</i>)	Dasheen (Taro) (<i>Colocasia esculenta</i>)	
Arrowroot (<i>Maranta arundinacea</i>)	Ginger (<i>Zingiber officinale</i>)	
Artichoke, Chinese (<i>Stachys affinis</i>)	Leren (<i>Calathea allouia</i>)	
Artichoke, Jerusalem (<i>Helianthus tuberosus</i>)	Sweet Potato (<i>Ipomoea batatas</i>)	
Canna, Edible (Queensland arrowroot) (<i>Canna indica</i>)	Tanier(cocoyam) (<i>Xanthosoma sagittifolium</i>)	
Cassava, Bitter & Sweet (<i>Manihot esculenta</i>)	Turmeric (<i>Curcuma longa</i>)	
Chayote (root) (<i>Sechium edule</i>)	Yam Bean (jicama, manioc pea) (<i>Pachyrhizus</i> spp.)	
Chufa (<i>Cyperus esculentus</i>)	Yam, True (<i>Dioscorea</i> spp.)	
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
<ul style="list-style-type: none"> Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control Excludes seed piece treatment. 		

[*][Not for use in California.]

Leaves of Root and Tuber Vegetables 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.)	
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
1) DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 2) DO NOT feed to livestock.		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

Bulb Vegetable Group Crop Group 3-07[*]

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, <i>A. 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> , <i>L. lancifolium</i>)		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 - 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

Leafy Vegetables (Except Spinach and Watercress) Crop Group 4-16[*]

Crops		
Amaranth, Chinese	Cress, upland	Orach
Amaranth, leafy	Dandelion, leaves	Parsley, fresh leaves
Arugula	Dang-gwi, leaves	Plantain, buckhorn
Aster, Indian	Dillweed	Primrose, English
Blackjack	Dock	Purslane, garden
Broccoli, Chinese	Dol-nam-mul	Purslane, winter
Broccoli raab	Ebolo	Radicchio
Cabbage, Abyssinian	Endive	Radish, leaves
Cabbage, Chinese, bok choy	Escarole	Rape greens
Cabbage, seakale	Fameflower	Rocket, wild
Cat's whiskers	Feather cockscomb	Shepherd's purse
Cham-chwi	Good King Henry	Spinach, Malabar
Cham-na-mul	Hanover salad	Spinach, New Zealand
Chervil, fresh leaves	Huauzontle	Spinach, tanier
Chipilin	Jute, leaves	Swiss chard
Chrysanthemum, garland	Kale	Turnip greens
Cilantro, fresh leaves	Lettuce, bitter	Violet, Chinese, leaves
Collards	Lettuce, head	Cultivars, varieties, and hybrids
Corn salad	Lettuce, leaf	of these commodities
Cosmos	Maca, leaves	
Cress, garden	Mizuna	
	Mustard greens	
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

Spinach[*]

Crops		
Spinach (<i>Spinacia oleracea</i>)		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off		
Seeding rate <3,000,000 seeds/A	0.034-0.384	1 – 10
Seeding rate <4,000,000 seeds/A	0.034-0.307	1 – 8
Seeding rate <8,000,000 seeds/A	0.034-0.230	1 – 6
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

Brassica Head and Stem Vegetables Crop Group 5-16[*]

Crops		
Broccoli Brussels sprouts Cabbage Cabbage, Chinese (napa)	Cauliflower Cultivars, varieties, and hybrids of these commodities	
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

Edible-Podded Legume Vegetables Crop Subgroup 6A[*]

Crops	Diseases	USE RATE	
		fl oz/100 lb seed (lb ai/100 lb seed)	mL/100 kg seed (g ai/100 kg seed)
Pea (<i>Pisum spp.</i>) (includes dwarf pea, edible-pod pea, snow pea, sugar snap pea)	Pythium seed rot, root rot, seedling rot and damping off due to <i>Pythium spp.</i> ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15)
Bean (<i>Phaseolus spp.</i>) (includes runner bean, snap bean, and wax bean) Bean (<i>Vigna spp.</i>) (includes asparagus bean, Chinese longbean, moth bean, yardlong bean) Jackbean (<i>Canavalia ensiformis</i>) Pea (<i>Pisum spp.</i>) (includes dwarf pea, edible-pod pea, snow pea, sugar snap pea) Pigeon pea (<i>Cajanus cajan</i>) Soybean (immature seed) (<i>Glycine max</i>) Sword bean (<i>Canavalia gladiata</i>)	Pythium diseases due to <i>Pythium spp.</i> ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15)
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
¹ When planting more susceptible varieties or when disease pressure is expected to be severe use higher rates.			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 			

[*][Not for use in California.]

Succulent Shelled Pea and Bean Crop Subgroup 6B[*]

Crops	Diseases	USE RATE	
		fl oz/100 lb seed (lb ai/100 lb seed)	mL/100 kg seed (g ai/100 kg seed)
Pea (<i>Pisum spp.</i>) (includes English pea, garden pea, green pea)	Pythium seed rot, root rot, seedling rot and damping off due to <i>Pythium spp.</i> ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15)
Bean (<i>Phaseolus spp.</i>) (includes lima bean (green)) Bean (<i>Vigna spp.</i>) (includes blackeyed pea, cowpea, southern pea) Broad bean (fava bean) (<i>Vicia faba</i>) Pigeon pea (<i>Cajanus cajan</i>)	Pythium diseases due to <i>Pythium spp.</i> ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15)
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
¹ When planting more susceptible varieties or when disease pressure is expected to be severe use higher rates			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 			

[*][Not for use in California.]

Dried Shelled Pea and Bean (Except Soybean) Crop Subgroup 6C[*]

Crops	Diseases	USE RATE	
		fl oz/100 lb seed (lb ai/100 lb seed)	mL/100 kg seed (g ai/100 kg seed)
Chickpea (garbanzo bean) (<i>Cicer arietinum</i>) Lentil (<i>Lens esculenta</i>) Pea (<i>Pisum spp.</i>) (includes field pea)	Pythium seed rot, root rot, seedling rot and damping off due to <i>Pythium spp.</i> ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15)
Bean (<i>Lupinus spp.</i>) (includes grain lupin, sweet lupin, white lupin and white sweet lupin) Bean (<i>Phaseolus spp.</i>) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean) Bean (<i>Vigna spp.</i>) (includes adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean) Broad bean (dry) (fava bean) (<i>Vicia faba</i>) Guar (<i>Cyamopsis tetragonoloba</i>) Lablab bean (hyacinth bean) (<i>Lablab purpureus</i>) Pigeon pea (<i>Cajanus cajan</i>)	Pythium diseases due to <i>Pythium spp.</i> ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.15)
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1. 			
¹ When planting more susceptible varieties or when disease pressure is expected to be severe use higher rates			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 			

[*][Not for use in California.]

Fruiting Vegetables Crop Group 8-10[*]

Crops		
African eggplant	Groundcherry	Roselle
Bush tomato	Martynia	Scarlet eggplant
Bell pepper	Naranjilla	Sunberry
Cocona	Okra	Tomatillo
Currant tomato	Pea eggplant	Tomato
Eggplant	Pepino	Tree tomato
Garden huckleberry	Non-bell pepper	Cultivars, varieties, and/or hybrids of these
Goji berry		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

Cucurbit Vegetables Crop Group 9[*]

Crops		
Chayote (fruit) (<i>Sechium edule</i>)	Muskmelon	Squash, summer (<i>Cucurbita pepo</i> var. <i>melopepo</i>)
Chinese waxgourd (Chinese preserving melon) (<i>Benincasa hispida</i>)	(hybrids and/or cultivars of <i>Cucumis melo</i>)	Crookneck squash
Citron melon (<i>Citrullus lanatus</i> var. <i>citroides</i>)	Cantaloupe	Scallop squash
Cucumber (<i>Cucumis sativus</i>)	Casaba	Straightneck squash
Gherkin (<i>Cucumis anguria</i>)	Crenshaw melon	Vegetable marrow
Gourd, edible (<i>Lagenaria</i> spp.)	Golden pershaw melon	Zucchini
Hyotan	Honeydew melon	Squash, winter (<i>Cucurbita maxima</i> , <i>C. moschata</i>)
Cucuzza	Honey balls	Butternut squash
Gourd, edible (<i>Luffa acutangula</i> , <i>L. cylindrical</i>)	Mango melon	Calabaza
Hechima	Persian melon	Hubbard squash
Chinese okra	Pineapple melon	Squash, winter (<i>Cucurbita mixta</i> , <i>C. pepo</i>):
<i>Momordica</i> spp.	Santa Claus melon	Acorn squash
Balsam apple	Snake melon	Spaghetti squash
Balsam pear	True cantaloupe	Watermelon (hybrids and/or varieties of <i>Citrullus lanatus</i>)
Bittermelon	Pumpkin (<i>Cucurbita</i> spp.)	
Chinese cucumber		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

Rapeseed (including Canola) - Crop Subgroup 20A[*]

Crops (Including cultivars, varieties, and/or hybrids of these)	Diseases	USE RATE	
		fl oz/100 lb seed (lb ai/100 lb seed)	mL/100 kg seed (g ai/100 kg seed) µg ai/seed
Borage Canola Crambe Cuphea Echium Flax seed Gold of pleasure Hare's ear mustard Lesquerella Lunaria Meadowfoam Milkweed Mustard seed Oil radish Poppy seed Rapeseed Sesame Sweet rocket	Root rot, seed rot and damping off due to <i>Pythium</i> spp. ¹	0.05 - 0.2 (0.00125 – 0.005)	3.13 – 12.52 (1.25 – 5.0) 0.0625 - 0.25 µg ai/seed ²
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
¹ When planting more susceptible varieties or when disease pressure is expected to be severe use higher rates. ² Based on 5g/1,000 (90,800 seeds/lb) seed weight			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 			

[*][Not for use in California.]

Cotton[*]

Crops		
Cotton		
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) and Dynasty® (containing azoxystrobin, EPA Reg No. 100-1159) for increased Pythium control		

[*][Not for use in California.]

Stalk, Stem and Leaf Petiole Vegetable Group (Crop Group 22)[*]

Crops		
Agave (<i>Agave</i> spp.)	Fern, edible, fiddlehead	
Aloe vera (<i>Aloe vera</i> (L.) Burm.f.)	Fuki	
Asparagus (<i>Asparagus officinalis</i> L.)	Kale, sea (<i>Crambe maritima</i> L.)	
Bamboo, shoots (<i>Arundinaria</i> spp.; <i>Bambusa</i> spp., <i>Chimonobambusa</i> spp.; <i>Dendrocalamus</i> spp., <i>Fargesia</i> spp.; <i>Gigantochloa</i> spp., <i>Nastus elatus</i> ; <i>Phyllostachys</i> spp.; <i>Thyrsostachys</i> spp.)	Kohlrabi (<i>Brassica oleracea</i> L. var. <i>gongylodes</i> L.)	
Cardoon	Palm hearts (various species)	
Celery (<i>Apium graveolens</i> var. <i>dulce</i>)	Prickly pear, pads (<i>Opuntia ficus-indica</i> (L.) Mill., <i>Opuntia</i> spp.)	
Celery, Chinese (<i>Apium graveolens</i> var. <i>secalinum</i>)	Prickly pear, Texas, pads (<i>Opuntia engelmannii</i> Salm-Dyck ex Engelm. var. <i>lindheimeri</i> (Engelm.) B.D. Parfitt & Pinkav)	
Celtuce (<i>Lactuca sativa</i> var. <i>angustana</i>)	Rhubarb (<i>Rheum x rhabarbarum</i> L.)	
Fennel, Florence, fresh leaves and stalk (<i>Foeniculum vulgare</i> subsp. <i>vulgare</i> var. <i>azoricum</i> (Mill.) Thell.)	Udo (<i>Aralia cordata</i> Thunb.)	
	Zuiki (<i>Colocasia gigantea</i> (Blume) Hook. F.)	
	Cultivars, varieties, and hybrids of these commodities	
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		
Additional Use Directions		
Vayantis may be combined with Apron XL (containing mefenoxam, EPA Reg. No. 100-799) for increased Pythium control		

[*][Not for use in California.]

Herb Crop Group 25[*]

Crops			
Agrimony	Creat	Lemongrass	Pipsissewa
Amla	Culantro	Lovage	Plantain, common
Angelica	Curry leaf	Love-in-a-mist	Rooibos
Angelica, dahurian	Curryplant	Mamaki	Rose
Applemint	Cut leaf	Marigold	Rosemary
Avarum	Damiana	Marigold, African	Sage
Balloon pea	Dillweed	Marigold, Aztec	Sage, Greek
Balm	Dokudami	Marigold, French	Sage, Spanish
Barrenwort	Echinacea	Marigold, Irish lace	Sage, white
Basil	Epazote	Marigold, licorice	Savory, summer
Basil, American	Eucommia	Marigold, Mexican mint	Savory, winter
Basil, Greek	Evening primrose	Marigold Mexican mint	Senna
Basil, holy	Eyebright	Marigold, signet	Siberian fir
Basil, lemon	Fennel, common	Marjoram	Skullcap
Basil, Russian	Fennel, Florence	Marjoram, pot	Small flower willow
Bay	Fennel, Spanish	Marjoram, sweet	head
Bearberry	Fenugreek	Marshmallow	Sorrel
Bisongrass	Feverfew	Meadowsweet	Sorrel, French
Blue mallow	Field pennycress	Mint	Sorrel, garden
Boneset	Flowers, edible,	Mint, corn	Southernwood
Borage	multiple species	Mint, Korean	Spearmint
Borage, Indian	Fumitory	Mint Korean	Spearmint, Scotch
Burnet	Galbanum	Monarda	Spilanthes
Burnet, garden	Galega	Moringa	Spotted beebalm
Burnet, salad	Gambir	Motherwort	St. John's Wort
Butterbur	Geranium	Mountainmint	Stevia
Calamint	Geranium, lemon	Mountainmint,	Stoneroot
Calamint, large-flower	Geranium, rose	clustered	Swamp leaf
Calamint, lesser	Germander, golden	Mountainmint, hoary	Tansy
Calendula	Goldenrod, European	Mountainmint, Virginia	Tarragon
Caltrop	Goldenseal	Mountainmint, whorled	Thuja
Camomile (Chamomile)	Gotu kola	Mugwort	Thyme
Camomile	Greater periwinkle	Mulberry, white	Thyme, creeping
(Chamomile),	Guayusa	Mullein	Thyme, lemon
German	Guyana	Mustard, hedge	Thyme, mastic
Camomile	Gumweed	Nasturtium	Toon, Chinese
(Chamomile), Roman	Gymnema	Nasturtium, bush	Toothed clubmoss
Caraway	Gypsywort	Nasturtium, garden	Trailing arbutus
Cat's claw	Hawthorn	Nettle, stinging	Vasaka
Catnip	Heal-all	Oregano	Verbena, blue
Catnip, Japanese	Hemp nettle	Oregano, Mexican	Veronica
Celandine, greater	Honeywort	Oregano, Puerto Rico	Violet
Celandine, lesser	Honeybush	Oswego tea	Watermint
Celery	Horehound	Oswego teat	Waterpepper
Centaury	Horsemint	Pandan leaf	Wild bergamot
Chaste tree	Horsetail	Pansy	Wintergreen
Chaste tree, Chinese	Hyssop	Paracress	Wood betony
Chervil	Hyssop, anise	Parsley	Woodruff
Chinese blackberry	Indian tobacco	Partridge berry	Wormwood
Chinese foxglove	Ironwort	Patchouli	Wormwood, Roman
Chive	Ivy	Pennyroyal	Yarrow
Chive, Chinese	Jamaica dogwood	Pepper leaf, black	Yellow gentian
Cicely, sweet	Jasmine	Peppermint	Yerba santa

Crops			
Cilantro	Labrador tea	Perilla	Yomogi
Clary	Lavender	Pill bearing spurge	Cultivars, varieties, and hybrids of these commodities
Coriander, Bolivian	Lemon verbena		
Coriander, Vietnamese			
Costmary			
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)	
Pythium Damping-off	0.0384 – 0.384	1 – 10	
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 			

[*][Not for use in California.]

Spice Crop Group 26[*]

Crops			
Ajowan, seed	Chervil, seed	Gum ghatti	Pepper, white
Alder buckhorn	Chinese hawthorn	Gum karaya	Pepperbush, berry
Allspice	Chinese nutmeg tree	Gum tragacanth	Pepperbush, leaf
Ambrette, seed	Chinese wineberry, fruit	Haw, black	Peppercorn, green
Amla, seed	Chinese-pepper	Honewort, seed	Peppertree
Angelica, dahurian, seed	Cinnamon, bark	Imperatoria	Peppertree, Peruvian
Angelica, seed	Cinnamon, fruit	Indian tobacco, seed	Perilla, seed
Angostura, bark	Cinnamon, Saigon, bark	Iva	Phellodendron
Anise pepper	Cinnamon, Saigon, fruit	Jalap	Pine, maritime
Anise, seed	Clove buds	Jamaica dogwood, bark	Poppy, seed
Anise, star	Clusterleaf	Juniper berry	Prickly ash, Chinese
Annatto, seed	Comfrey	Kaffir lime, leaf	Prickly ash, Southern, bark
Asafoetida	Copaiba	Kewra	Pygeum
Ashwagandha, fruit	Coptis	Kokam	Qing hua jiao
Autumn crocus	Coriander, fruit	Linden, leaf	Quassia, bark
Balsam, Peruvian	Coriander, seed	Lovage, seed	Quebracho, bark
Barberry, bark	Cotton, bark	Mace	Quillaja
Batavia-cassia, bark	Crampbark	Magnolia, bark	Quinine
Batavia-cassia, fruit	Cubeb, seed	Mahaleb	Rauwolfia, bark
Belleric myrobalan	Culantro, seed	Malabar cardamom	Resin spurge
Betel vine	Culvers root	Malabar-tamarind	Rue
Birch, bark	Cumin	Malabathrum	Saffron crocus
Bisnaga, seed	Cumin, black	Mastic	Sandalwood, seed
Bitterwood	Dill, seed	Micromeria, white	Sassafras, bark
Black bread weed	Dorrigo pepper, berry	Milk thistle	Sassafras, leaf
Bloodroot	Dorrigo pepper, leaf	Mioga	Saunders, red
Blue mallee	Dragon blood	Miracle fruit	Saw palmetto
Blushwood, seed	Echinacea, seed	Mistletoe	Sesame, seed
Boldo, leaf	Epimedium	Mojave yucca	Silktree, bark
Buchu	Eucalyptus	Muirea puama	Simaruba, bark
Calamus root	Eucommia, bark	Mustard, black	Skunk cabbage, root
Candlebush	European beech	Mustard, brown	Slippery elm
Canella, bark	Felty germander	Mustard, seed	Stemona, root
Caper buds	Fennel flower, seed	Mustard, white	Suma
Caper spurge, seed	Fennel, common, fruit	Myrrh	Sumac, fragrant
Caraway, black	Fennel, common, seed	Myrrh, bisabol	Sumac, smooth, leaf
Caraway, fruit	Fennel, Florence, fruit	Myrtle, anise	Taheebo, bark
Cardamom, black	Fennel, Florence, seed	Myrtle, leaf	Tamarind, seed
Cardamom, Ethiopian	Fenugreek, seed	Myrtle, lemon	Tasmanian pepper, berry
Cardamom, green	Fingerroot	Nasturtium, bush, pods	Tasmanian pepper, leaf
Cardamom, Nepal	Flame lily, seed	Nasturtium, garden, pods	Threelaf caper
Cardamom-amomum	Frankincense	Nasturtium, pods	Tsaoko
Cascara sagrada	Frankincense, Indian	Nettle, stinging, seed	Vanilla
Cassia, bark	Fringetree, bark	Nutmeg	Wattleseed
Cassia, Chinese, bark	Galbanum, resin	Osha	White willow
Cassia, Chinese, fruit	Gambooge	Pepper, black	Willow
Cassia, fruit	Grains of paradise	Pepper, Indian long	Witch hazel
Cat's claw, bark	Grains of Selim	Pepper, Javanese long	Yaw root
Catechu, bark	Guaiac	Pepper, leaf	Yellow gentian, roots
Celery, seed	Guarana	Pepper, pink	Yohimbe
Chaste tree, berry	Guggul	Pepper, Sichuan	
	Gum Arabic		

Crops		
Chaste tree, Chinese, roots		Cultivars, varieties, and hybrids of these commodities
Diseases	Use Rate (fl oz/100 lb seed)	Picarbutrazox (g ai/100 kg seed)
Pythium Damping-off	0.0384 – 0.384	1 – 10
Resistance Management:		
<ul style="list-style-type: none"> Refer to Section 3.1. 		
USE RESTRICTIONS		
<ul style="list-style-type: none"> DO NOT use at a rate that will result in more than 0.0178 lb ai/A (8.1 grams ai/A) per year. 		

[*][Not for use in California.]

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