

432-1033

9/22/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460-0001



OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

September 22, 2011

Mr. Jan Brill
Bayer Environmental Science
2 T.W. Alexander Drive
Raleigh, NC 27709

Subject: Amended Reregistration Label
Product Name: Pyrenone® Crop Spray
EPA Registration Number: 432-1033
EPA Decision Numbers: 411275, 411810

Dear Mr. Brill:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the reregistration of the above referenced product in connection with the Pyrethrins and Piperonyl Butoxide REDs, and has concluded that your submission is acceptable.

NOTE: This product is not being reregistered under sections 3(c)5 and 4(g) of FIFRA at this time.

Please note that the record for this product currently contains the Confidential Statements of Formulation (CSFs) listed below. Any previously dated CSFs are superseded.

- Basic CSF, dated 8/19/2010
- Alternate CSF #1, dated 8/20/2010
- Alternate CSF #2, dated 8/27/2010

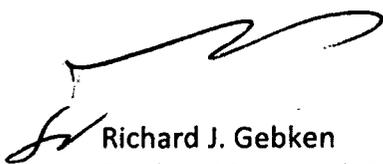
Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on non-refillable containers. The code may appear either on the label or durably marked on the container itself, and can be added by non-notification per PRN 98-10.

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A copy of your label stamped "Accepted" is enclosed along with copies of the acute toxicity and product chemistry reviews completed for the subject product. Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

If you have any questions about this letter, please contact Julie Chao at (703) 308-8735 or chao.julie@epa.gov.

Sincerely,



Richard J. Gebken
Product Manager (10)
Insecticide Branch
Registration Division (7504P)

Enclosures: *Label stamped "Accepted," dated September 22, 2011*
Acute Toxicity Review, dated April 30, 2010
Product Chemistry Reviews, dated August 18 and August 26, 2010

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PYRENONE[®] Crop Spray

- * CONTAINS 0.5 POUNDS OF PYRETHRINS PER GALLON.
- * CONTAINS 5.0 POUNDS OF PIPERONYL BUTOXIDE PER GALLON.
- * DESIGNED FOR USE ON MINOR CROPS.
- * CAN BE USED UP TO AND INCLUDING THE DAY OF HARVEST.
- * CAN BE USED AS A TANK-MIXED EXCITER.
- * MAY BE USED OVER ALL CROPS.

ACTIVE INGREDIENTS:

Pyrethrins	6.0%
*Piperonyl Butoxide.....	60.0%
†OTHER INGREDIENTS:	34.0%
	... 100.0%

*(butylcarbityl)(6-propylpiperonyl) ether and related compounds.

†Contains Petroleum Distillate

EPA REG. NO. 432-1033

EPA EST. NO.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUCION AL CONSUMIDOR: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • 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 to 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 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER: 1-800-331-2867	
[Pyrethrins]	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-334-7577 for emergency medical treatment information.	
Note To Physician: Contain petroleum distillate – vomiting may cause aspiration pneumonia.	

ACCEPTED
SEP 22 2011

Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for the
pesticide registered under:

EPA. Reg. No: 432-1033

See Side Panel For Additional Precautions

PRECAUTIONARY STATEMENTS

Hazards To Humans & 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.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, or viton. If you want more options, follow the instructions for category F on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators and other handlers must wear the following:

- Long-sleeved shirt and long pants,
- Shoes and socks,
- Goggles or faceshield, and
- Chemical-resistant gloves

In addition to the above PPE, applicators using a high pressure handwand in an enclosed area must wear at least a NIOSH-approved respirator with:

- a dust/mist filter (MSHA/NIOSH approval number prefix TC-21C) or
- any R, P or HE filter.

In addition to the above PPE, applicators using hand held foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with:

- a dust/mist filtering cartridge (MSHA/NIOSH approval number prefix TC-21D),
- or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or
- a cartridge or canister with any R, P or HE filter.

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.

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

See engineering controls for additional requirements.

User Safety Recommendations

- User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing."

Engineering Controls Statements:

Pilots must use an enclosed cockpit that meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.24(d)(6)].

Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

When using in an enclosed area, do not remain in treated area. Ventilate the area after treatment is completed. All food processing surfaces should be removed or covered during treatment, or thoroughly cleaned before using. When using this product in these areas, apply only when facility is not in operation.

When using this product as a space spray in food processing plants, foods should be removed or covered during treatment. Do not apply as a space spray while food processing is underway. Food processing surfaces and equipment must be covered during treatment or cleaned with a suitable detergent and rinsed with potable water before reuse.

ENVIRONMENTAL HAZARDS for TERRESTRIAL APPLICATIONS

This pesticide is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow drift to blooming crops or weeds while bees are actively visiting the treatment area.

Except as specified in the directions for use, do not apply directly to water, to areas where surface water is present to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate.

ENVIRONMENTAL HAZARDS for WIDE AREA MOSQUITO ADULTICIDE APPLICATIONS

This pesticide is toxic to aquatic organisms, including fish and invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates.

When applying as a wide area mosquito adulticide, before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply when bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the bases of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or is specifically approved by the state or tribe during a natural disaster recovery effort.

When applying as a wide area mosquito adulticide, do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries, except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitator movement of applied material away from the water in order to minimize incidental deposition into the water body.

Physical Or Chemical Hazards

Do not use or store near heat or open flame. Do not use in undiluted form.

DIRECTIONS FOR USE

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

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 the handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not 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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- * Coveralls
- * Chemical-resistant gloves made of any waterproof material
- * Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Wear protective clothing when using or handling this product to help avoid exposure to eyes and skin. Eye protection, gloves, a long-sleeved shirt and long-pants are recommended.

For space spray use:

Do not enter or allow others to enter until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.

For all other uses:

Except when used as a wide-area mosquito adulticide, do not apply this product in a way that will contact workers or other persons, either directly or through drift.

USE RESTRICTIONS

- 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 area during application.
- Do not make applications during rain.
- Remove or cover exposed food and drinking water before application.
- Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces, or wash them before use.
- Do not use in aircraft cabins.
- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- Do not apply directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
- Not for use in outdoor residential misting systems.
 - Except when making wide area mosquito applications, do not enter or allow others to enter until sprays have dried.
- Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors, and/or mists have dispersed.
- Do not water the treated area to the point of run-off.
- Do not make space spray applications when facility is in operation.
- Prior to space spray applications, cover or remove food.
- Prior to space spray applications, cover food processing surfaces or clean after treatment and before use.
- All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:
 - (1) Treatment to soil or vegetation around structures;
 - (2) Applications to lawns, turf, and other vegetation;
 - (3) Applications to building foundations, up to a maximum height of 3 feet.
 Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and crevice applications, only.
- Except when used as a wide-area mosquito adulticide, only protected handlers may be in the area during application.
- Do not wet plants to point of runoff or drip.

SPRAY DRIFT MANAGEMENT FOR AGRICULTURAL CROPS

Avoiding spray drift at the application site is the responsibility of the applicator and the grower. The interactions of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.
 Do not apply at wind speeds greater than 10 mph at the application site.
 Do not make any type of application into temperature inversions.
 Apply as a medium or coarser spray (ASABE standard 572).

Additions requirements for aerial applications:

Do not release spray at a height greater than 10 feet above the ground or crop canopy.
 The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
 Aerial Applications must consider flight speed and nozzle orientation in determining droplet size.
 When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

Additional requirements for ground applications:

Do not release spray at a height greater than 4 feet above the ground or crop canopy.

Additional requirements for airblast applications:

Direct sprays into the canopy.

Turn off outward pointing nozzles at row ends and when spraying outer rows.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Pyrenone Crop Spray is relatively non-toxic to Honey Bees. To maximize this benefit, apply early in the morning or late in the evening.

WIDE AREA MOSQUITO CONTROL

For use by federal, state, tribal, or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if permits or other regulatory requirements exist.

Pyrenone Crop Spray provides effective control of adult mosquitoes, all common diptera in areas such as industrial areas, urban areas, parks, campsites, woodlands, athletic fields, golf courses, playgrounds, recreational and overgrown waste areas, roadsides, and other public areas where adult mosquitoes and flies occur. Pyrenone Crop Spray may be used over agricultural crops. For best results, apply when meteorological conditions create a temperature inversion and ground wind speed is equal to or greater than 1 mph. The application should be made so the wind will carry the insecticidal fog into the area being treated. Pyrenone Crop Spray can be applied as undiluted or diluted with refined soybean oil, light mineral oil of 54 second viscosity or other suitable solvent or diluent. Use a white mineral oil diluent conforming to regulation 21CFR 178.3620(b) or a odorless light petroleum hydrocarbon diluent conforming to 21CFR 172.882 or 40 CFR 180.910 (Inert ingredients used pre- and post-harvest; exemptions from the requirement of a tolerance), and 180.930 (Inert ingredients applied to animals; exemptions from the requirement of a tolerance).

Spray Droplet Size Determination

Ground Equipment:

Spray equipment must be adjusted so that the volume median diameter is less than 30 microns (Dv 0.5 < 30 µm) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50µm). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Aerial Equipment:

Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns (Dv 0.5 < 60 µm) and that 90% of the spray is contained in droplets smaller than 80 microns (Dv 0.9 < 80 µm). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

All types of applications should be conducted at temperatures at or above 50°F. Apply when ground wind speeds are equal to or greater than 1mph.

The maximum application rate for wide area mosquito adulticide is 0.0025 lbs pyrethrin/acre, or 0.04 lbs Pyrenone Crop Spray per acre. When targeting *Aedes Taeirorhynchus* and other difficult species applications may be made up to 0.008 lbs pyrethrin/acre/day, or 0.13 lbs Pyrenone Crop Spray /acre/day. Do not apply more than 0.2 lbs pyrethrin/acre/year, or 3.33 lbs Pyrenone Crop Spray/acre/year whichever is lower in any treated area. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal, or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

GROUND APPLICATION

Vehicle-Mounted ULV Cold Aerosol Generators or Vehicle-Mounted Non-Thermal Aerosol (Cold Fog): Dilute 5 parts of Pyrenone Crop Spray with 1 part of oil or suitable solvent. Apply through non-thermal ULV application equipment and base acreage calculations on the equipment manufacturer's recommended swath width. An optimum swath is created when Pyrenone Crop Spray is applied from a truck that is being driven perpendicular to the wind direction. Direct the spray head of equipment to ensure even distribution of the spray cloud throughout the area. For best results, apply when insects are most active and meteorological conditions are conducive to keeping the spray cloud in the air column close to the ground. An inversion of air temperatures and a light breeze is preferable. Application during the cooler hours of the night or early morning is recommended.

Pyrenone Crop Spray may be applied through ULV Cold Aerosol Generators, or other equipment designed for non-thermal ULV aerosol applications. The desired application rate may be obtained under different conditions by altering the dilution rate of Pyrenone Crop Spray the flow rate of the insecticide from the application equipment and the vehicle speed.

Pyrenone Crop Spray may also be diluted with oil or suitable solvent and apply so as not to exceed the maximum pounds of active ingredient per acre as show in the table below. If an alternative dilution rate is used, adjust the flow rate accordingly, provided the droplet size and spectrum remains with label specifications.

AERIAL APPLICATION: To control adult mosquitoes and biting flies Pyrenone Crop Spray may be applied either diluted or undiluted by fixed wing or rotary aircraft that are capable of making a ULV application. Do not apply by fixed wing aircraft at a nozzle height less than 100 feet, or by helicopter at a height less than 75 feet above the ground or canopy unless specifically approved by the state or tribe based on public health needs.

For best results, treat when insects are most active and meteorological conditions are conducive to keeping the spray cloud in the air column close to the ground. In order to compensate for windy conditions and ensure drift onto the target area aerial application with aircraft equipped with Global Positioning Systems (GPS) is recommended.

Backpack Spray Application: Dilute 1 part Pyrenone Crop Spray with 12 parts oil or suitable diluent and apply at the rate of 7 ounces per acre (based on a 50 foot swath, 7 ounces should be applied while walking 870 feet).

WIND SPEED

Apply only when wind speed is greater than or equal to 1 mph.

Ground-based applications for wide-area mosquito abatement application:

Spray equipment must be adjusted so that the volume median diameter is less than 30 microns (Dv 0.5<30µm) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9<50µm). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Aerial applications for wide-area mosquito abatement application:

Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns ($Dv\ 0.5 < 60\mu m$) and that 90% of the spray is contained in droplets smaller than 80 microns ($Dv\ 0.9 < 80\mu m$). The effects of flight speed, and for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rates(s) are properly calibrated.

RELEASE HEIGHT for AERIAL:**Fixed wing:**

Apply using a nozzle height of no less than 100 feet above the ground canopy.

Rotary wing:

Apply using a nozzle height of no less than 75 feet above the ground or canopy.

USE THROUGH IRRIGATION SYSTEMS (CHEMIGATION): Refer to supplemental labeling entitled "DIRECTIONS FOR APPLICATION THROUGH IRRIGATION SYSTEMS" (available through your distributor) for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

Pyrenone Crop Spray may be used on most crops. The crop grouping scheme used on this label was devised by the Environmental Protection Agency to expedite minor use pesticide registration. Each crop grouping on this label contains the phrase "including" and then lists a number of crops in each group. This wording allows the use of Pyrenone Crop Spray on crops that may not be specifically listed on this label (providing that the group to which the crop belongs is listed).

PYRENONE CROP SPRAY MAY BE APPLIED TO THE FOLLOWING CROPS:

ROOT AND TUBER VEGETABLES: Including, Arracacha; arrowroot; arrowroot, purple; artichoke, Japanese; artichoke, Jerusalem; beet; beet, sugar; burdock, edible; carrot; cassava, bitter or sweet; celeriac (celery root); chervil, turnip-rooted; chicory; chufa; dasheen (taro); ginger; ginseng; horseradish; leren; parsley, turnip-rooted; parsnip; potato; radish; radish, Japanese (Daikon); rutabaga; salsify (Oyster plant); salsify, black; salsify, Spanish; skirret; sweet potato; tanier (cocoyam); tumeric; turnip; yam, true; yam, bean.

LEAVES OF ROOT AND TUBER VEGETABLES: Including, beet; beet, sugar; burdock, edible; carrot; cassava, bitter or sweet; celeriac; chervil, turnip-rooted; chicory; dasheen; parsnip; radish; radish, Japanese; rutabaga; salsify, black; sweet potato; tanier; turnip; yam, true.

BULB VEGETABLES (Allium spp.): Including, garlic; leek; onion; shallot.

LEAFY VEGETABLES: Including, Amaranth (leafy amaranth, Chinese spinach, tampala); arrugula (Roquette); celery; celtuce; chervil; corn salad; chrysanthemum, edible leaved; chrysanthemum, garland; cress, garden; cress, upland (yellow rockets, winter cress); dandelion; dock (sorrel); endive (escarole); fennel, Florence; lettuce; orach; parsley; purslane, garden; purslane, winter; rhubarb; spinach; spinach, fine (Malabar, Ceylon); spinach, New Zealand; Swiss chard.

BRASSICA (COLE) LEAFY VEGETABLES: Including, Broccoli; broccoli, Chinese (gai lon); broccoli raab (rapini); Brussels sprouts; cabbage; cabbage, Chinese (bok choy); cabbage, Chinese mustard (gai choy); cauliflower; collards; kale; kohlrabi; mustard greens; rape greens.

LEGUME VEGETABLES: Including, Beans (Phaseolus spp.) (includes adzuki beans, field beans, kidney beans, lima beans, moth beans, mung beans, navy beans, pinto beans, rice beans, runner beans, snap beans, tepary beans, urd beans, wax beans); beans (Vigna spp.) (includes asparagus beans, blackeyed peas, catjang, Chinese longbean, cowpeas, crowder peas, southern peas, yardlong beans); broad beans (fava beans - Vicia faba); chick peas (garbanzo beans); quar; jackbean (sword bean); lablab beans (hyacinth bean); lentils; peas (Pisum spp.) (includes garden peas, field peas, sugar peas); pigeon peas; soybeans.

LEAVES OF LEGUME VEGETABLES: Including, Beans (*Phaseolus* spp.) (includes adzuki beans, field beans, kidney beans, lima beans, moth beans, mung beans, navy beans, pinto beans, rice beans, runner beans, snap beans, tepary beans, urd beans, wax beans); beans (*Vigna* spp.) (includes asparagus beans, blackeyed peas, catjang, Chinese longbean, cowpeas, crowder peas, southern peas, yardlong beans); broad beans (fava beans - *Vicia faba*); chick peas (garbanzo beans); quar; Jackbean (sword bean) lablab beans (hyacinth bean); lentils; peas (*Pisum* spp.) (includes garden peas, field peas, sugar peas); pigeon peas; soybeans.

FRUITING VEGETABLES: Including, Eggplant; ground cherry (*Physalis* spp.); pepinos (*Solanum muricatum*); pepper (includes bell peppers, chili peppers, cooking peppers, pimentos, sweet peppers); tomatillo; tomatoes.

CUCURBIT VEGETABLES: Including, Balsam pear (bitter melon); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourds, edible (*Lagenaria* spp., *Luffa acutangula*, *L. cylindrica*); melons, including hybrids (*Cucumis melo*) (including cantaloupe, casaba, crenshaw, honeydew melons, honey balls, mango melon, muskmelon, Persian melon); pumpkin (*Cucurbita* spp.); squash, summer (*Cucurbita pepo* var. *melopepo*); squash, winter (*Cucurbita maxima*, *C. moschata*); watermelon, including hybrids (*Citrullus* spp.); zucchini.

ORIENTAL VEGETABLES: acerola; atemoya; balsam pear (bitter melon); carambola; Chinese broccoli (Gai Lon); Chinese cabbage (Bok Choy, Napa); Chinese longbeans; Chinese mustard cabbage (Gai Choy); Chinese spinach; Chinese waxgourd; cilantro; citron melon; dasheen; ginger; ginseng; Japanese artichoke; Japanese radish (Daikon); rambutan.

CITRUS FRUITS (*Citrus* spp., *Fortunella* spp.): Including, Calamondin; citrus citron; citrus hybrids (*Citrus* spp.) (includes chironja, tangelos, tangors); grapefruit; kumquats; lemon; limes; mandarin (tangerine); orange, sour; orange, sweet; pummelo; satsuma mandarin.

POME FRUITS: Including, apple; crabapple; loquat; pear; pear, oriental; quince.

STONE FRUITS: Including, apricot; cherry, sour; cherry, sweet; nectarine; peach; plum and prune; plum, Chickasaw; plum, Damson; plum, Japanese.

SMALL FRUITS AND BERRIES: Including, blackberry; blueberry; cranberry; currant; dewberry; elderberry; gooseberry; grape; huckleberry; loganberry; olallie berry; raspberry, black and red; strawberry; youngberry.

SUBTROPICAL FRUITS: avocado; banana; carob; Barbados cherry; cherimoya; dates; durian (Jackfruit); feijoa; figs; guava; kiwifruit; lychee; mango; papaya; passion fruit; persimmon; pineapple; pomegranate.

TREE NUTS: Including, almond; beech nut; Brazil nut; butternut; cashew; chestnut; chinquapin; filbert (hazelnut); hickory nut; macadamia nut (bush nut); pecan; pistachio; walnut, black and English (persian).

CEREAL GRAINS: Including, barley; buckwheat; corn (sweet and field); millet; proso; oats; millet, pearl; popcorn; rice; rye; sorghum (milo); teosinte; triticale; wheat; wild rice.

FORAGE, FODDER AND STRAW OF CEREAL GRAINS: Including, buckwheat; corn (sweet and field); millet; proso; oats; millet, pearl; popcorn; rice; rye; sorghum (milo); teosinte; triticale; wheat; wild rice.

GRASSES FOR SEED, FORAGE, FODDER AND HAY: Including, any grass (Gramineal family, green or cured, except sugarcane and those listed in the ceareal grains group) pasture and range grasses, grasses grown for hay and silage, Bermuda grass, bluegrass, brome grass, fescue.

NONGRASS ANIMAL FEEDS: Including, alfalfa; bean, velvet; clover; kudzu; lespedeza; lupine; sainfoin; trefoil; vetch, crown; vetch, milk.

HERBS AND SPICES: Including, anise (aniseed); balm; basil; borage; burnet; camomile; caraway; catnip; chicory; chives; clary; coriander; costmary; cumin; curry leaf; dill; fennel (Italian and sweet); fenugreek; horehound; hyssop;

marigold; marjoram, sweet (oregano); marjoram, wild; mint; nasturtium; paprika; parsley; pennyroyal; rosemary; rue; sage; savory, summer and winter; sweet bay (bay leaf); tansy; tarragon; thyme; wintergreen; woodruff; wormwood.

ADDITIONAL CROPS: Including asparagus; avocado; chayote; coffee; cotton; hops; jojoba; okra; pineapple; safflowers; sesame; sugar cane; sunflowers; tea.

ORNAMENTALS: Including, African violet; ageratum; aster; azalea; begonia, cacti; calceolaria; calendula; calla; camella; camellias; carnations; ceanothus; chrysanthemum; cineraria; coleus; cyclamen; cypress; daffodil; dahlia; delphinium; eucalyptus; ferns; ficus; foliage plants; fuschia; gardenia; geranium; gladiolus; gloxina; gypsophila; hyacinth; hydrangea; imitari, feles; iris; ivy; lilies; maidenhair fern; marigold; narcissus; orchids; pansy; pelargonium; peony; petunia; philodendron; phlox; poinsettias; pyracantha; rhododendron; roses; rubber plant; snapdragon; stock; sweet pea; tulip; viburnum; wandering jew; zinnia and Andromeda; arbovitae; ash; beech; birch; boxwood; butternut; chamaecyparis; cherry; cotoneaster; crabapple; dogwood; Douglas fir; elm; euonymus; fir; firethorn; forsythia; hackberry; hawthorn; hemlock; hickory; holly; honey locust; horse chestnut; juniper; larch; laurel; lilac; linden; London plane; magnolia; maple; mimosa (silk tree); mountain ash; myrtle; oak; packysandra; peach; pine; planetree; poplar; privet; quince; spruce; sycamore; Taxus; tulip tree; viburnum; walnut; willow; yew.

TO CONTROL THE FOLLOWING INSECTS:

Including, Achemon sphinx moth, alfalfa caterpillar, alfalfa looper, alfalfa weevil, almond moth, Angoumois grain moth, ants, aphids, apple maggot, armyworms, artichoke plume moth, asparagus beetle, Bagworm, bean beetles, bean leaf beetles, bedbugs, beet armyworm, beet webworm, beetles, biting flies, black widow spiders, blister beetles, blossom weevil, blowflies, blueberry maggot, boll weevil, bollworm, boxelder bug, budmoth, bugs, Cabbage looper, cadelles, cankerworms, carpet beetles, carrot rust fly, carrot weevil, caterpillars, centipedes, cereal leaf beetle, cherry fruit fly, chigger, chinch bug, cicada, cigarette beetle, clothes moth, clover mite, clover weevil, cockroaches, codling moth, Colorado potato beetle, collembola, confused flour beetle, corn borers, corn earworm, corn flea beetle, corn rootworms, corn sap beetle, cotton leaf perforator, crane flies, crickets, cross-striped cabbageworm, cucumber beetles, cutworms,

Darkling beetle, darkling ground beetle, deer fly, deer tick, diamondback moth caterpillars, digger wasps, Douglass fir tussock moth, dried fruit beetle, drugstore beetle, earwigs, Eastern tent caterpillar, Egyptian alfalfa weevil, elm bark beetle, elm leaf beetle, European corn borer, European pine tip moth, face fly, fall webworm, fire ants, firebrats, fireworms, flat grain beetle, fleas, flea beetles, flies, forest tent caterpillars, fruit flies, fulgorids, fungus gnats,

Garden webworm, granary weevil, grape leafhopper, grapeleaf skeletonizer, grasshoppers, grapevine root borer, green bug, green cloverworm, green fruitworm, green June beetle, green peach aphid, gypsy moth, Harlequin bug, Heliothis, hessian fly, hickory shuckworm, hornets, horn fly, hornworms, horse fly, house fly, Indianmeal moth, imported cabbageworm, Japanese beetle, katydids,

Lace bugs, leaf beetles, leaf-footed bugs, leafhoppers, leafminers, leafrollers, leaftiers, lesser cornstalk borer, lesser grain borer, lice, little house fly, loopers, lygus, maize weevil, mealybugs, Mediterranean flour moth, melonworm, merchant grain beetle, Mexican bean beetle, midges, millipedes, mosquitoes, mushroom flies, Nantucket pine tip moth, navel orangeworm, nitidulids,

Oakworms, onion maggot, Oriental fruitmoth, peachtree borer, pear psylla, phorids, pickleworm, pillbugs, pine needle miner, pine tube moth, pine weevils, plant bugs, plum curculio, plume moths, potato aphids, potato leafhopper, potato tuberworm, psyllids,

Range caterpillars, redbanded leafroller, redhumped caterpillar, red flour beetle, rice weevil, rusty grain beetle, sap beetles, sawtoothed grain beetle, sciarids, shield bugs, silverfish, skippers, sod webworm; sorghum midge, sowbugs, soybean looper, squarenecked grain beetle, spittlebugs, springtails, squash beetle, squash bugs, squash vine borer, stable fly, stalk borers, stink bugs, strawberry mites, strawberry weevil.

Tabanids, tarnished plant bug, tent caterpillars, thrips, ticks, tomato hornworm, tomato pinworm, tortoise beetles, tortrix, tussock moths, velvetbean caterpillar, vinegar flies, Walnut caterpillar, wasps, webworms, weevils, whiteflies, woollybear caterpillar, yellowstriped armyworm, yellowjackets.

USE ON GROWING CROPS:

Do not make more than 10 applications per season.

Do not reapply within 3 days, except under extreme pest pressure. In case of extreme pest pressure, do not reapply within 24 hours.

USED ALONE: Pyrenone Crop Spray is designed for use on minor crops and as a pre-harvest spray when other materials cannot be used due to pre-harvest interval restrictions. Pyrenone Crop Spray may be used up to and including the day of harvest. Apply up to 0.05 pounds of pyrethrins per acre. Use the calibration chart listed below to calculate the desired application rate. Use in sufficient water for thorough coverage of upper and lower leaf surfaces.

CALIBRATION CHART

Pounds of Pyrethrins Per Acre	Fluid Ounces Pyrenone Per Acre	Acres Treated Per Gallon of Pyrenone
0.004	1	128
0.008	2	64
0.016	4	32
0.032	8	16
0.05	12	11

USED IN COMBINATION WITH OTHER INSECTICIDES:

Pyrenone Crop Spray may be combined with other insecticides for quicker and more complete control and as an exciter to flush insects out of hiding and into contact with spray residues. The application must conform to the accepted use precautions and directions for both products. Pyrenone Crop Spray may be tank-mixed at rates of up to 0.05 pounds of pyrethrins with the amount of companion insecticide specified for one acre.

Prior to tank-mixing, a small jar compatibility test should be conducted using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

Tank-mix applications must be made in accordance with the more restrictive of label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

USE ON GREENHOUSE FRUIT, VEGETABLE, FLOWER AND FOLIAGE PLANTS:

USED ALONE: Combine 12 to 24 ounces of Pyrenone Crop Spray with 100 gallons of water for applications with conventional hydraulic sprayers or 1 to 2 teaspoons per gallon of water for applications with compressed air sprayers.

USED IN COMBINATION WITH OTHER INSECTICIDES: To provide quick knockdown of insects when used with a residual insecticide, tank-mix 1 to 4 ounces of Pyrenone Crop Spray with the proper amount of companion insecticide in 100 gallons of water and apply with a conventional hydraulic sprayer.

Applications must be made in accordance with the more restrictive of label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

IMPORTANT NOTE: Plant safety is an important consideration when using insecticides in a greenhouse. However, it is not possible to evaluate the phytotoxicity of Pyrenone Crop Spray towards numerous plant varieties that may react differently to insecticides in different growth stages or under varying environmental conditions. Before making widespread applications of Pyrenone Crop Spray, treat a limited number of plants and observe for phytotoxicity over a 10 day period.

USE OUTDOORS ON TREES, SHRUBS, FLOWERS AND FOLIAGE PLANTS:

USED ALONE: Combine 12 to 24 ounces of Pyrenone Crop Spray with 100 gallons of water for applications with conventional hydraulic and airblast sprayers or 12 to 24 ounces of Pyrenone Crop Spray with 10 gallons of water for applications with low volume mist blowers or 1 to 2 teaspoons per gallon of water for applications with compressed air sprayers.

USED IN COMBINATION WITH OTHER INSECTICIDES: To provide quick knockdown of insects when used with a residual insecticide, tank-mix 1 to 4 ounces of Pyrenone Crop Spray with the proper amount of companion insecticide in 100 gallons of water (10 gallons of water for low volume application with mist blowers) and apply with conventional hydraulic or airblast sprayers.

Applications must be made in accordance with the more restrictive of label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

FOR CONTROL OF GYPSY MOTH CATERPILLARS AND ADULTS: Combine 8 to 12 ounces of Pyrenone Crop Spray with 100 gallons of water for applications with conventional hydraulic sprayers or 8 to 12 ounces of Pyrenone Crop Spray with 10 gallons of water for applications with airblast sprayers. To provide quick knockdown of gypsy moth caterpillars when used with a residual insecticide, tank-mix 1 to 4 ounces of Pyrenone Crop Spray with the proper amount of companion insecticide in 100 gallons of water (10 gallons of water for airblast sprayers) and apply with a conventional hydraulic sprayer.

Applications must be made in accordance with the more restrictive of label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

USE INDOORS ON TREES, SHRUBS, FLOWERS AND FOLIAGE PLANTS:

USED ALONE: Combine 12 to 24 ounces of Pyrenone Crop Spray with 100 gallons of water for applications with conventional hydraulic sprayers or 1 to 2 teaspoons of Pyrenone Crop Spray per gallon of water for applications with compressed air sprayers.

USED IN COMBINATION WITH OTHER INSECTICIDES: To provide quick knockdown of insects when used with a residual insecticide, tank-mix 1 to 4 ounces of Pyrenone Crop Spray with the proper amount of companion insecticide in 100 gallons of water and apply with a conventional hydraulic sprayer.

Applications must be made in accordance with the more restrictive of label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

USE ON TURF AND GRASS

USED ALONE: To control ants, armyworms, billbugs, chinch bugs, chiggers, crickets, cutworms, earwigs, fleas, grasshoppers, Hyperodes weevils (adults), Japanese beetles (adults), mole crickets, sod webworms and ticks, dilute and apply per the instructions in the following table:

Treatment Area (Sq Ft)	Fluid ounces of Pyrenone	Suggested Volume ^a of Water (Gallons)
1,000	0.25 to 0.5	2.5 to 5.0
5,000	1.25 to 2.5	12.5 to 25.0
20,000	5.0 to 10.0	50.0 to 100.0
43,560 ^b	12.0 to 24.0	110.0 to 220.

^a Dilute with enough water to obtain thorough coverage.

^b 43,560 square feet = 1 acre.

USED IN COMBINATION WITH OTHER INSECTICIDES: To provide quick knockdown of insects when used with a residual insecticide, tank-mix Pyrenone Crop Spray with the proper amount of companion insecticide and apply at the rates listed above.

Applications must be made in accordance with the more restrictive of label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

USED AS A TURF PEST DIAGNOSTIC AID: To detect turf insects prior to making an insecticide application or to evaluate control from previous treatments, dilute one tablespoon of Pyrenone Crop Spray per gallon of water and apply evenly with a sprinkling can over one square yard of turf. Record the species and number of insects present ten minutes after application. Sample 3 to 5 sites per 5,000 square feet. Note: this procedure does not bring white grubs or billbug grubs to the surface. Use other methods to sample for these pests.

USE WITH HYDROPONICALLY GROWN VEGETABLES

AS A WATER SYSTEM TREATMENT: To control aquatic diptera larvae, apply Pyrenone Crop Spray to the water at the rates outlined in the following table:

Pyrethrins Concentration	ml of Pyrenone Crop Spray	Gallons of Water
0.1 ppm	64.6	10,000
0.01 ppm	6.46	10,000
0.001 ppm	0.646	10,000

USE ON HARVESTED FRUITS

Including apples, blackberries, blueberries, boysenberries, cherries, crabapples, currants, dewberries, figs, gooseberries, grapes, guavas, loganberries, mangoes, muskmelons, oranges, peaches, pears, peas, pineapples, plums, raspberries, tomatoes.

DIRECT SPRAY TO FRUITS IN BASKETS, ON TRUCKS OR IN PROCESSING PLANTS: To control Vinegar Flies And Fruit Flies dilute 1 part Pyrenone Crop Spray with 1200 parts of water (1 pint per 150 gallons or 1 teaspoon per 12.5 pints of water). Thoroughly mix the emulsion in the spray tank and apply at high pressure at the rate of 2.5 to 3 pints of the diluted spray per ton of fruit. Direct the spray for maximum coverage of the baskets or hampers. It is important to spray between and beneath the containers.

USE AS A SURFACE SPRAY

IN HOMES, RESTAURANTS, FOOD PROCESSING PLANTS, INDUSTRIAL INSTALLATIONS AND WAREHOUSES: To control accessible, exposed stages of crawling insects including, Ants, Cockroaches, Cadelles, Cigarette Beetles, Confused Flour Beetles, Dark Mealworms, Dried Fruit Beetles, Drugstore Beetles, Grain Mites, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Spider Beetles, Yellow Mealworms, dilute 1 part of Pyrenone Crop Spray with 59 parts of water and apply at the rate of 1 gallon to 750 square feet, paying special attention to force the spray into all cracks and crevices.

IN USDA INSPECTED FACILITIES: To control accessible, exposed stages of crawling insects including, ants, cockroaches, cadelles, cigarette beetles, confused flour beetles, dark mealworms, dried fruit beetles, drugstore beetles, grain mites, red flour beetles, rice weevils, sawtoothed grain beetles, spider beetles, yellow mealworms, dilute 1 part of Pyrenone Crop Spray with 19 parts of water and apply at the rate of 1 gallon to 750 square feet, paying special attention to force the spray into all cracks and crevices.

USE AS A SPACE SPRAY

To control crawling and flying insects in sites that include, but are not limited to, homes, restaurants, food processing plants, industrial installations and warehouses, Pyrenone Crop Spray may be diluted with water and applied as a space spray. For best results, close doors and windows before spraying and keep them closed for 30 minutes after treatment. The applicator must vacate the area after treatment and ventilate before reoccupying. Where oil residues are not

undesirable, Pyrenone Crop Spray can be diluted in light mineral oil instead of water and applied with mechanical, thermal or ULV applicators.

The use of this product in food processing or food handling establishments must be confined to time periods when the plant is not in operation. Foods should be covered or removed during treatment. Food processing surfaces and equipment must be covered during treatment or cleaned with a suitable detergent and rinsed with potable water before reuse.

CRAWLING AND FLYING INSECTS: For control of accessible, exposed stages of CRAWLING INSECTS including, All Common Diptera, Ants, Cockroaches, Cadelles, Cigarette Beetles, Confused Flour Beetles, Dark Mealworms, Dried Fruit Beetles, Drugstore Beetles, Grain Mites, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Spider Beetles, Yellow Mealworms and FLYING INSECTS including, All Common Diptera, Angoumois Grain Moths, Cheese Skippers, Fruit Flies, Fungus Gnats, Gnats, House Flies, Indianmeal Moths, Mosquitoes, Mediterranean Flour Moths, Small Flying Moths, Tobacco Moths, dilute 1 part of Pyrenone Crop Spray with 11 parts of water or oil (10.67 ounces per gallon) and apply at the rate of 1 ounce per 1000 cubic feet of space. Direct the spray towards the ceiling and upper corners of the area and behind obstructions. Vacate the treated area and keep the area closed for at least 30 minutes after treatment. Ventilate the area before reoccupying. Repeat treatment as necessary.

FLYING INSECTS: For control of Flying Insects Including, Angoumois Grain Moths, Cheese Skippers, Fruit Flies, Fungus Gnats, Gnats, House Flies, Indianmeal Moths, Mosquitoes, Mediterranean Flour Moths, Small Flying Moths, Tobacco Moths, dilute 1 part of Pyrenone Crop Spray with 47 parts of water or oil (2.67 ounces per gallon) and apply at the rate of 1 ounce per 1,000 cubic feet of space. Direct the spray towards the ceiling and upper corners of the area and behind obstructions. Vacate the treated area and keep the area closed for at least 30 minutes after treatment. Ventilate the area before reoccupying. Repeat treatment as necessary.

STORED SWEET POTATOES: To control Vinegar Flies And Fruit Flies, dilute 1 part Pyrenone Crop Spray with 19 parts of water (6.4 fluid ounces per gallon) and apply at the rate of 1 gallon per 100,000 cubic feet. Apply only when flying insects are present. Several applications may be necessary during periods of heavy infestation, but do not make more than 10 applications.

IN BARN, MILKING PARLORS, MILK ROOMS, DAIRIES AND POULTRY HOUSES: To control flying insects including, Flies, Fruit Flies, Mosquitoes, Gnats, Wasps, Hornets And Small Flying Moths, dilute 1 part of Pyrenone Crop Spray with 63 ounces of water (2 ounces per gallon) and apply at the rate of 1 to 2 ounces per 1,000 cubic feet. Apply as a fog or fine mist, directing the spray above livestock and poultry toward the ceiling and upper corners of the area being treated. For best results, close doors and windows before spraying and keep them closed for ten to fifteen minutes. The applicator must vacate treated area after treatment and ventilate before reoccupying. Repeat application as necessary.

USE IN STORED PRODUCT PROTECTION

AS A GRAIN AND SEED PROTECTANT: Pyrenone Crop Spray may be applied to the following grains and seeds: barley, beans, birdseed, buckwheat, cocoa beans, corn, cottonseed, flax, oats, rice, rye, sorghum and wheat to protect them from grain storage insects for a full season or approximately 8 months. Pyrenone Crop Spray may be used in combination with a registered fumigant for use on heavily infested stored products.

TO CONTROL STORED PRODUCT INSECTS INCLUDING, Almond Moths, Angoumois Grain Moths, Cadelles, Cigarette Beetles, Confused Flour Beetles, Drugstore Beetles, Flat Grain Beetles, Granary Weevils, Indianmeal Moths, Lesser Grain Borers, Maize Weevils, Mediterranean Flour Moths, Merchant Grain Beetles, Red Flour Beetles, Rice Weevils, Rusty Grain Beetles, Sawtoothed Grain Beetles And Squarenecked Grain Beetles, dilute at the rate of 1 part Pyrenone Crop Spray with 29 parts water (1 pint with 3 gallons 5 pints water). Thoroughly mix the emulsion and apply at the rate of 4 to 5 gallons per 1,000 bushels of grain or seed as it is carried along a belt or as it enters the auger or elevator.

SURFACE TREATMENT OF STORED GRAIN AND SEED: To control Indianmeal moths, Angoumois grain moths and Mediterranean flour moths, monthly inspections should be made after the grain is placed in storage. If the top two or

three inches are infested, dilute 1 part of Pyrenone Crop Spray with 19 parts of water and apply at the rate of 1 to 2 gallons per 1,000 square feet of grain. Rake the mixture into the grain to a depth of 4 inches.

ON ALMONDS, PEANUTS AND WALNUTS IN BULK OR IN BAGS: To control stored product insects including, Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cigarette Beetles, Confused Flour Beetles, Drugstore Beetles, Flat Grain Beetles, Granary Weevils, Indianmeal Moths, Lesser Grain Borers, Maize Weevils, Mediterranean Flour Moths, Merchant Grain Beetles, Red Flour Beetles, Rice Weevils, Rusty Grain Beetles, Sawtoothed Grain Beetle Red Flour Beetles, Rice Weevils, Rusty Grain Beetles, Sawtoothed Grain Beetles And Squarenecked Grain Beetles, dilute 1.33 ounces of Pyrenone Crop Spray per gallon of water and apply as a coarse wet spray over the top of stored nuts or the outside surface of stacked bagged nuts at the rate of 4 gallons per 1,000 square feet. Apply at weekly intervals for about 6 weeks and then at 15-day intervals. The first two applications should be applied at the rate of 4 gallons per 1,000 square feet and subsequent treatments should be applied at the rate of 2 gallons per 1,000 square feet.

STORAGE SITES: To treat grain and seed storage sites, warehouse bins, trucks, cargo ships and planes prior to filling with grain or seed, the site should be thoroughly cleaned by sweeping out the waste, cobwebs and other debris on the walls and rafters as well as on the floor and about the door frames, paying special attention to the material lodged in the cracks and crevices. These accumulations should be removed and burned to kill eggs and insects that might be present.

In mills and elevators, particular attention should be given to the bin hoppers to remove all grain infested accumulations. Conveying equipment should also be made clean and free of trash deposits that could maintain an infestation. For farms, specific attention should be given to cleaning up around the used feed and grain bags, grain residues from wagons, harvesting equipment and feed troughs. Newly harvested grain should not be placed in the same bin with carry-over grain and all carry-over grain stocks not treated with grain protectant should be fumigated. These cleaning operations should be done within two or three weeks before harvest. To treat the storage site prior to using it for storage, dilute 1 part of Pyrenone Crop Spray with 59 parts of water (1 pint with 7 gallons 3 pints of water) and apply to walls, floors, ceilings and partition boards at the rate of one gallon per 750 square feet. It is important to thoroughly treat all cracks and crevices.

SPACE SPRAY ON STORED SWEET POTATOES: To control Vinegar Flies and Fruit Flies, dilute 1 part Pyrenone Crop Spray with 19 parts of water (6.4 fluid ounces per gallon) and apply at the rate of 1 gallon per 100,000 cubic feet. Apply only when flying insects are present. Several applications may be necessary during periods of heavy infestation, but do not make more than 10 applications.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **PESTICIDE STORAGE AND SPILL PROCEDURES:** Store in original container in a cool, dry place inaccessible to children and pets. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:**

Rigid, Non-refillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons)

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

Rigid Non-refillable containers that are too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs)

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. 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 or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

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 refiller. To clean the 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 or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

NET CONTENT:

Pyrenone is a registered trademark of Bayer AG.



Bayer Environmental Science

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Pyrenone Crop Spray (PENDING) 03/16/10, Resubmitted 09-19-2011