

10/12/2012

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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

October 12, 2012

Ms Sharon Johnston
Agent for Prentiss, Inc
c/o RegGuide
509 Tower Valley Drive
Hillsboro, MO 63050

Subject Amended Reregistration Label
Product Name Prentox PBO-8
EPA Registration Number 655-736
EPA Decision Number 411070

Dear Ms Johnston

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 **Piperonyl Butoxide RED** 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product currently contains the Confidential Statements of Formulation (CSFs) listed below Any previously dated CSFs are superseded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 6/30/2010

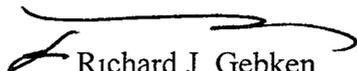
Please note that, should you wish to add/retain a reference to the company's website on your label, the website becomes labeling under FIFRA and is subject to review by the Agency If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under section 12(a)(1)(E) of FIFRA 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 on your product's label, claims made on the website may not be 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 EPA's Office of Enforcement and Compliance Assurance (OECA) As an alternative, you may refer consumers to the company's phone number or e-mail address

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

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 either Linda Arrington at (703) 305 6249 or via e-mail at Arrington.Linda@epa.gov

Sincerely yours,



Richard J Gebken
Product Manager (10)
Insecticide Branch
Registration Division (7505P)

Enclosures Label stamped "Accepted," dated 10/12/2012
 Acute Toxicity Review, dated 9/10/2010
 Product Chemistry Review, dated 8/30/2011

PRENTOX® PBO-8®

An Emulsifiable Concentrate containing 8 lbs of PiperonylButoxide Technical per gallon

Contains piperonylbutoxide the active ingredient used in Exponent®

ACTIVE INGREDIENT
PiperonylButoxide*
OTHER INGREDIENTS
TOTAL

91.3%
8.7%
100.0%

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

PRENTOX® and PBO-8® -- Registered Trademarks of Prentiss LLC

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
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 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 do so by a poison control center or doctor Do not give anything by mouth to an unconscious or convulsing person
If in eyes	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes Remove contact lenses if present after the first 5 minutes then continue rinsing eye Call a poison control center or doctor for treatment advice
If inhaled	<ul style="list-style-type: none"> Move person to fresh air If person is not breathing call 911 or an ambulance then give artificial respiration preferably by mouth-to-mouth if possible Call a poison control center or doctor for further treatment advice
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-866-257-4118 for emergency medical treatment information	

See inside label booklet for additional PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC 1-800-424-9300

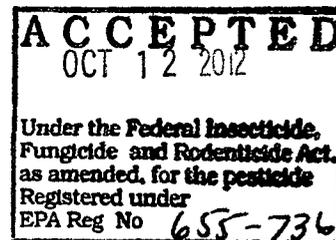
For Medical Emergencies Only, Call 866-257-4118

EPA Reg No 655-736
EPA Est No

Manufactured by
Prentiss LLC
501 Cascade Pointe Lane Suite 103
Cary NC 27513

Prentox PBO-8 is not manufactured or distributed by McLaughlin Gormley King Company® sellers of Exponent

Net Contents



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION Harmful if ~~swallowed~~ ~~inhaled~~ or absorbed through the skin. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt and long pants, socks and shoes and chemical resistant gloves (such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Polyvinyl Chloride or Viton (Selection Category C)).

Personal Protective Equipment (PPE)

Mixers, loaders, applicators and other handlers must wear the following: long sleeved shirt and long pants, shoes and socks and chemical resistant gloves.

In addition to the above PPE, mixers and loaders supporting aerial applications to forests and/or applicators using a high pressure hand wand in an enclosed area must wear at least a NIOSH-approved respirator with a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any N, 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-21C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a cartridge or canister with any N, R, P or HE filter.

See engineering controls for additional requirements.

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

Engineering Controls Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)]. Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users 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. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

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

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate.

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

PHYSICAL OR CHEMICAL HAZARDS

Do not store near heat or open flame.

DIRECTIONS FOR USE

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

USE RESTRICTIONS

This product is an emulsifiable concentrate for use as an additive in insecticides and acaricides to improve control of insects and mites. This product aids in reducing oxidative resistance that can develop in insects and mites. This product has no insecticidal effect of its own.

- Apply this product only as specified on this label
- Do not contaminate food or feedstuffs
- Except when applying to livestock dairy and poultry animals do not apply this product in a way that will contact workers or other persons either directly or through drift
- Except when applying to livestock dairy and poultry animals only protected handlers may be in the treatment area during application Do not enter or allow others to enter the treated area until vapors mists and aerosols have dispersed and the treated area has been thoroughly ventilated
- Not for use in outdoor residential misting systems (indoor or outdoor) Do not use in nurseries or rooms where infants ill or aged persons are confined Do not place metering device directly over or within 8 feet of exposed food dishes utensils food processing equipment and food handling or preparation areas If the device works on an automatic timer set the timing for application when people pets and/or food are unlikely to be present If the device works when a person operates a remote activation device then application of this pesticide when people pets and food are present is prohibited Direct nozzle to spray towards the target area and away from areas where people are typically present The pesticide container must be locked Do not install within 3 feet of air vents air conditioner units or windows Carefully follow directions for the dispenser unit when installing the dispenser and replacing cans or conducting maintenance
- Do not use in aircraft cabins
- Do not wet articles to point of run-off or drip Do not use treated articles until spray has dried
- Do not wet plants to point of run-off or drip
- Do not apply this product directly into sewers or drains or to any area like a gutter where drainage to storm sewers storm drains water bodies or aquatic habitat can occur Do not allow this product to enter any drain during or after application
- Do not make applications when heavy rain is expected or during rain
- Not for use in outdoor residential misting systems
- Do not remain in treated area Exit area immediately and remain outside the treated area until aerosols vapors and/or mists have dispersed
- 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
- 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
- For agricultural premises commercial animal housing and equipment direct application to non-domestic animals/livestock greenhouse grown ornamental flowering and foliage plants and outdoor ornamentals and lawns Do not apply more than 1 time per day
- For food crops grown outdoors or in greenhouses in agricultural settings Do not apply more than 10 times 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 Do not apply to cotton with 14 days of seed harvest
- For indoor food handling/processing facilities 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 Do not apply more than 1 time per day
- For post-harvest application to vegetables fruits and nuts Do not apply more than 1 time per day Do not reapply within 7 days Do not apply more than 10 times to sweet potatoes
- For post-harvest application to stored grain and seed Do not reapply within 30 days

- For food stored in bags Direct application to food contact surfaces is prohibited
- For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation
- Remove pets birds and cover fish aquariums before spraying

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours 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 such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or PVC or viton and 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

For surface spray use Except when applying to livestock dairy and poultry animals do not enter or allow others to enter treated area until sprays have dried

For space spray use Do not enter or allow others to enter until vapors mists or aerosols have dispersed and the treated area has been thoroughly ventilated

TANK MIXES Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user applicator and/or application advisor Read and follow the most restrictive label instructions and precautions of all products in a tank mix

APPLICATION INSTRUCTIONS

This product may be applied using ground equipment sprayers hand-held sprayers power sprayers foggers ULV applicators or by chemigation

Not for use in outdoor residential misting systems

SPRAY DRIFT MANAGEMENT

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

Aerial Applications

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) Do not release spray at a height greater than 10 feet above the ground or crop canopy Boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter Aerial applicators must consider airspeed 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 downwind displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind

Ground Applications

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

Airblast Applications

Direct spray into the canopy Turn off outward-pointing nozzles when spraying row ends and when spraying outer rows

Use this product as an additive to insecticides or acaricides applied according to label directions on growing food feed or seed crops outdoors or in greenhouses or on dormant crops

CROPS

RESTRICTIONS FOR USE ON FOOD CROPS

Maximum application rates

- Field and orchard – 0.5 lbs/acre or 0.012 lbs/1000 square feet
- Hydroponically grown crops – 1.0 ppm ai in water
- Greenhouse space sprays – 0.0014 lbs/1000 cubic feet
- Greenhouse surface spray – 0.012 lbs per 1000 square feet or 0.5 lbs/acre

ROOT AND TUBER VEGETABLES

Arracacha arrowroot purple arrowroot Japanese artichoke Jerusalem artichoke beets sugarbeets edible burdock carrot cassava (bitter or sweet) celeriac chervil (turnip rooted) chicory dasheen (taro) ginger ginseng horse radish leren parsley (turnip rooted) parsnip potatoes radish Japanese radish (daikon) rutabaga salsify black salsify Spanish salsify sweet potatoes tanier (cocoyam) turmeric turnip true yams bean yams

LEAVES OF ROOT AND TUBER VEGETABLES

Beets sugarbeets edible burdock carrot cassava (bitter or sweet) celeriac chervil (turnip rooted) chicory dasheen (taro) parsnip radish Japanese radish (daikon) rutabaga black salsify sweet potatoes tanier (cocoyam) turnip true yam

BULB VEGETABLES (*Allium* spp)

Garlic great-headed garlic leek onion (dry bulb or green) spring onion (scallions) Welsh onion shallots

LEAFY VEGETABLES

Amaranth (leafy amaranth Chinese spinach tampala) arugula (roquette) celery celtuce chervil corn salad chrysanthemum (edible leaved) chrysanthemum (garland) cress (garden) cress (upland yellow rocket winter cress) dandelion dock (sorrel) endive escarole fennel (Florence) lettuce (head and leaf) orach parsley purslane (garden and winter) rhubarb romaine spinach fine spinach (Malabar Ceylon) spinach (New Zealand) Swiss chard

BRASSICA (COLE) LEAFY VEGETABLES

Broccoli broccoflower cavalo-broccoli Chinese broccoli (gailan) broccoli raab (rapini) Brussels sprouts cabbage Chinese cabbage (bokchoy) Chinese cabbage (napa) Chinese mustard cabbage (gai choy) cauliflower collards kale kohlrabi mizuna mustard greens mustard spinach rape greens

LEGUME VEGETABLES (SUCCULENT OR DRIED)

Adzuki beans asparagus beans black-eyed peas broad beans (fava beans) catjang chick peas (garbanzo beans) Chinese longbeans cowpeas crowder peas field beans guar jackbeans sword beans kidney beans lablab beans (hyacinth beans) Lima beans lentils moth beans mung beans navy beans peas (dwarf edible pod English garden green field snowpeas sugar snap peas) pigeon peas pinto beans rice beans runner beans snap peas southern peas soybeans grain lupin sweet lupin white lupin pole beans tepary beans urd beans wax beans yardlong beans

LEGUME VEGETABLE FOLIAGE

Plant part of any legume vegetables included in the legume vegetable group that will be used as animal feed including any variety of beans and field peas

FRUITING VEGETABLES

Eggplant ground cherry pepinos peppers (bell chili cooking pimento sweet peppers) tomatillo tomatoes

CUCURBIT VEGETABLES

Balsam pear (bitter melon) Chinese waxgourd (Chinese preserving melon) citron melon cucumber gherkins edible gourds melons (hybrids ananas canary cantaloupe casaba charentais Crenshaw galia honeydew honeyballs mangomelon muskmelon Persian melon piel de sapo) pumpkin squash (summer and winter) western shipper melon watermelon (including hybrids seeded and unseeded)

CITRUS FRUITS

Calamondin citrus citron citrus hybrids grapefruit kumquats lemons limes mandarins tangerines orange (sweet and sour) pummelo satsuma mandarins

POME FRUITS

Apple crabapple loquat mayhaw pear oriental pear quince

STONE FRUITS

Apricot cherries (sweet and sour) nectarines peaches plums prunes Chickasaw plums Damson plums Japanese plums Plumcot

SMALL FRUITS AND BERRIES

Bingleberries blackberries blueberries cranberries currants dewberries elderberries gooseberries grapes huckleberries loganberries lowberries ollalieberries black raspberries red raspberries strawberries youngberries

TREE NUTS

Almond beech nut Brazil nut butternut cashew chestnut chinquaoin filbert (hazelnut) hickory nut macadamia nut (bush nut) pecan pistachio walnut (black and English or Persian)

ORIENTAL VEGETABLES

Japanese artichoke Chinese broccoli (gailan) Chinese cabbage (bokchoy) Chinese mustard cabbage (gaichoy) dasheen ginger ginseng Chinese longbeans mung beans citron melon balsam pear (bitter melon) Japanese radish (daikon) Chinese spinach Chinese waxgourd

SUBTROPICAL FRUITS

Avocado banana carob Barbados cherry cherimoya dates durian (jackfruit) feijoa figs guava kiwifruit lychee mango papaya passionfruit pawpaw persimmon pineapple pomegranate

CEREAL GRAINS

Barley buckwheat corn (sweet pop and field) millet proso oats pearl rice rye sorghum (milo) teosinte triticale wheat wild rice

FORAGE, FODDER AND STRAW OF CEREAL GRAINS

Barley buckwheat corn (sweet pop and field) millet proso oats pearl rice rye sorghum (milo) teosinte triticale wheat wild rice

GRASSES FOR SEED, FORAGE, FODDER AND HAY

Includes any grass (graminaceae) green or cured except sugarcane and those listed under cereal grains that will be used to graze or feed livestock such as pasture grasses range grasses grasses grown for hay or silage Bermuda grass bluegrass bromegrass fescue annual ryegrass festulolium hybrid ryegrass Italian ryegrass meadow fescue orchard grass Sudangrass sorghum-Sudan tall fescue timothy wheat hay turfgrasses bentgrass Kentucky bluegrass specialty grasses

NON-GRASS ANIMAL FEEDS

Alfalfa velvet bean clover kudzu lespedeza lupin Sainfoin trefoil crown vetch milk vetch

HERBS AND SPICES

Allspice angelica anise (anise seed) annatto balm basil borage burnet chamomile caper buds caraway black caraway cardamom cassia bark cassia buds catnip celery seed chervil chives Chinese chives clary clove buds coriander (cilantro or Chinese parsley) coriander (cilantro) seed costmary cilantro cumin curry leaf dill (weed seed) fennel (Italian and sweet) fenugreek grains of paradise horehound hyssop juniper berry lavender lemongrass lovage (leaf and seed) lace marigold marjoram (sweet wild) mustard (seed) nasturtium nutmeg oregano mint paprika parsley pennyroyal pepper (white or black) poppyseed rosemary rue saffron sage savory (including summer or winter) sweet bay (bay leaf) tansy tarragon thyme vanilla watercress wintergreen woodruff wormwood

OILSEED CROPS

Canola crambe rapeseed flax safflower sesame soybeans sunflowers

ADDITIONAL CROPS

Artichoke asparagus avocado coffee cotton hemp hops jojoba mushrooms olives okra peanuts safflower sesame sugar cane sunflowers tea tobacco

ORNAMENTALS

Flowering Plants

African violets ageratum aster azalea begonia cactus calceolaria calendula calla camellia carnation ceanothus Christmas trees conifer plantations conifer seed orchards cineraria chrysanthemum coleus cyclamen cypress daffodil dahlia delphinium dogwood fern ficus foliage plants forest tree nurseries palm and tropical tree nurseries fuchsia gardenia geranium gladiolus gloxinia gypsophila holly hyacinth hydrangea iris juniper lily maidenhair fern marigold narcissus palm pansy pelargonium peony petunia philodendron phlox pine pyracantha rhododendron rose rubber plant snapdragon stock sweet pea tulip viburnum wandering Jew yew zinnia

Trees and Shrubs

Andromeda arborvitae ash beech birch boxwood cotoneaster crabapple dogwood elm euonymus fir firethorn forsythia hawthorn hemlock hickory holly honey locust horse chestnut juniper larch laurel lilac linden mimosa (silk tree) myrtle oak pine privet tulip tree (yellow poplar) willow

RATES

NOTE Mix this product with insecticides or acaricides listed on this label. This product has no insecticidal activity of its own. Rates indicated on this label refer to the proportion of this product to be added to the insecticide or acaricide. Carefully observe the label directions for the insecticide or acaricide to be used and apply at rates directed on those labels. **Always follow the most restrictive label directions, restrictions, and precautions of all products in a tank-mix.** Do not mix with any product that prohibits tank mixtures with piperonylbutoxide.

Rate Restrictions – Food Crops		
Crop	Maximum Use Rate	Restrictions
Field and orchard crops	8 fl oz per acre (0.5 lb ai per acre) or 0.2 fl oz per 1000 square feet	Do not apply more than 10 times per year. Do not re-apply within 3 days except in case of extreme pest pressure. In which case do not re-apply within 24 hours. Do not apply to cotton within 14 days of seed harvest.
Hydroponic crops	1.0 ppm ai in water (equivalent to 1 fl oz of product per 62,500 gallons of water)	
Greenhouse space spray	0.22 fl oz per 10,000 cubic feet	
Greenhouse surface spray	0.2 fl oz per 1000 sq feet	

Rate Restrictions – ornamental, flowering and foliage plants		
Crop	Maximum Use Rate	Restrictions
Greenhouse surface spray	0.58 fl oz per 1000 sq ft	Do not apply more than once a day
Greenhouse space spray	0.67 fl oz per 10,000 cubic ft	
Forestry	20 fl oz per acre	
Sod farms	16 fl oz per acre	

PHYTOTOXICITY NOTICE

Prior to tank mixing do a compatibility test using the proper proportions of pesticide synergist and water to ensure physical compatibility of the mixture. Mix at a rate of 2 to 8 fl oz of this product per acre based on the amount of active ingredient. In the absence of specific data or prior experience on growing crops and ornamentals (outdoors in greenhouses or indoors) test tank mixes on a small sample of the plants to be treated prior to use and observe for any phytotoxic injury.

Calculating the amount of this product to use

Most insecticides are synergized at a rate of 1 to 10 parts of this product's active ingredient to 1 part insecticide active ingredient. Determine the amount of insecticide ai to be used in pounds then multiply that by the ratio of this product desired (1 to 10). Then divide by 0.0625 (the amount of this product's ai in pounds per fluid ounces). This will be the number of fluid ounces of product to use.

$$\frac{\text{Lb insecticide ai} \times \text{ratio of this product}}{0.0625} = \text{Fluid ounces of this product required}$$

TANK MIX RATES

NOTE Do not exceed maximum use rates in Rate Restrictions table above

Tank mix insecticide	If insecticide rate per acre is	Then amount of this product is
Abamectin 2% ai	5 – 10 fl oz	2 fl oz
	16 fl oz	3 fl oz
	20 fl oz	4 fl oz
B – cyfluthrin 12.7% ai	0.8 – 1.6 fl oz	2 fl oz
	1.8 – 2.4 fl oz	3 fl oz
	2.8 fl oz	3.5 fl oz
	3.2 fl oz	4 fl oz
	6.4 fl oz	8 fl oz
Cyfluthrin 25% ai	0.8 fl oz	2 fl oz

Tank mix insecticide	If insecticide rate per acre is	Then amount of this product is
	1 6 fl oz	4 fl oz
	2 fl oz	5 fl oz
	2 8 fl oz	7 fl oz
	3 2 – 6 4 fl oz	8 fl oz
Cyfluthrin 20% ai	1 fl oz	2 fl oz
	2 fl oz	4 fl oz
	2 5 fl oz	5 fl oz
	3 fl oz	6 fl oz
	3 5 fl oz	7 fl oz
	4 – 8 fl oz	8 fl oz
Cypermethrin 30 6% ai	2 fl oz	6 4 fl oz
	2 5 – 5 fl oz	8 fl oz
Bifenthrin 10% ai	6 4 fl oz	6 4 fl oz
	8 – 32 fl oz	8 fl oz
Bifenthrin 25 1% ai	1 6 fl oz	4 fl oz
	2 1 fl oz	5 3 fl oz
	2 6 fl oz	6 4 fl oz
	3 2 – 32 fl oz	8 fl oz
Esfenvalerate 8 4% ai	2 9 fl oz	2 4 fl oz
	4 8 fl oz	4 fl oz
	5 8 fl oz	4 8 fl oz
	8 fl oz	6 4 fl oz
	9 6 – 14 5 fl oz	8 fl oz
Fenpropathrin 30 9% ai	5 1/3 – 21 1/3 fl oz	8 fl oz
Imidacloprid 17 4% ai	2 fl oz	4 fl oz
	3 fl oz	6 fl oz
	3 8 fl oz	7 6 fl oz
	4 – 20 fl oz	8 fl oz
Imidacloprid 75% ai	0 8 – 1 fl oz	8 fl oz
Lambda cyhalothrin 11% ai	1 92 fl oz	2 4 fl oz
	2 56 fl oz	3 2 fl oz
	3 2 fl oz	4 fl oz
	3 84 fl oz	4 8 fl oz
Methomyl 29% ai	12 – 48 fl oz	8 fl oz
Permethrin 38 4% ai	2 fl oz	4 fl oz
	4 – 16 fl oz	8 fl oz
Permethrin 25% ai	3 2 fl oz	4 fl oz
	6 4 – 32 fl oz	8 fl oz
Zeta-cypermethrin 9 6% ai	1 28 – 1 92 fl oz	2 fl oz

Tank mix insecticide	If insecticide rate per acre is	Then amount of this product is
	2.24 – 3 fl oz	3 fl oz
	3.2 – 4 fl oz	4 fl oz
Zeta-cypermethrin 18.1% ai	1.4 fl oz	2.6 fl oz
	1.9 fl oz	3.5 fl oz
	2 fl oz	3.8 fl oz
	2.4 fl oz	4.5 fl oz
	2.8 fl oz	5.3 fl oz
	3 fl oz	5.6 fl oz
	3.4 fl oz	6.4 fl oz
	4.3 fl oz	8 fl oz

CHEMIGATION

This product may be applied through the following types of sprinkler irrigation systems: center pivot, lateral move, end tow, side/wheel roll, traveler, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.

Ensure uniform distribution of water to avoid crop injury or illegal residue levels in the crop. For questions about calibration, contact your State Extension Service Specialists, the equipment manufacturer, or other experts.

Do not apply by chemigation when wind speed favors drift beyond the area intended for treatment.

Do not connect any irrigation system (including in greenhouses) used for pesticide application to a public water system unless the safety devices prescribed on the pesticide label for public water systems are in place.

A person knowledgeable about the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make adjustments when necessary should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally-closed, solenoid-operated valve on the intake side of the injection pump, and connected to the system interlock to prevent fluid from being drawn from the supply tank when the irrigation system is shut down manually or automatically. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the pump motor stops. The irrigation line or water pump must include a functional pressure valve which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must have a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) designed for and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Maintain constant agitation in the chemical supply tank during the entire period of application. Applications will be made more accurate and uniform by injection of a larger volume of more dilute pesticide suspension per unit of time.

SHADE AND FOREST TREES*

Combine Prentox PBO-8 at the rate of 1/2 to 2 fluid ounces with the 1 acre dosage of ORTHENE TREE AND ORNAMENTAL SPRAY SEVIN brand (carbaryl)(*) WP, 4il, OL, SL, XLR or SEVIMOL to kill GYPSY MOTH LARVAE and CANCKER WORMS.

*EXCEPT CALIFORNIA

NON-CROP USES

This product may be mixed with insecticides registered for use in the following areas Residential dwellings or indoors in commercial or institutional buildings including houses (indoor or outdoor) multiple unit housing hotels schools restaurants food processing facilities food storage facilities bakeries healthcare facilities warehouses office buildings factories industrial facilities Do not use in aircraft cabins

For correct rate of insecticide refer to the label of the tank-mix insecticide

When used as a space spray do not exceed 0.4 fl oz of this product per 1000 cu ft of treated area Do not apply more than 1 time per day Thoroughly ventilate the treated area before re-entry or re-occupying

If used as a crack and crevice or broadcast surface spray do not exceed 8 fl oz of this product per 1000 sq ft of treated area Do not apply more than 1 time per day

For metered-release device space sprays do not exceed 0.80 fl oz of this product per 1000 cu ft of treated area Do not apply more than 1 time per day

FOOD HANDLING ESTABLISHMENTS

(Places other than private residences in which food is held processed prepared or served)

NON-FOOD AREAS This product may be used to treat non-food areas such as garbage rooms lavatories entries and vestibules offices locker rooms machine rooms boiler rooms garages mop closets and storage (after canning or bottling)

FOOD AREAS This product can be used to treat food areas of food handling establishments restaurants or other areas where foods are commercially prepared or served

POST-HARVEST APPLICATION TO FOOD COMMODITIES

Do not apply this product except in mixture with an insecticide registered for use in post-harvest application to food commodities Carefully follow label directions for the insecticide being used This product may be added to appropriately labeled insecticides on potatoes tomatoes peas sweet potatoes apples blackberries blueberries boysenberries cherries crabapples currants dewberries figs gooseberries grapes guava loganberries mangoes muskmelons oranges peaches pears pineapples plums raspberries almonds walnuts copra and peanuts

When used as a space spray to fruits vegetables and copra do not exceed 0.16 fl oz of this product per 1000 cu ft of space treated When used as a surface application to the commodities listed do not exceed 1.6 fl oz of product per 1000 sq ft of treated area When used as a surface application to fruit or tomatoes in baskets or hampers do not exceed 0.013 fl oz of this product per 1000 lb of fruit When used as a dip or spray do not exceed 0.64 fl oz of this product per 10 gallons of water

STORED GRAIN AND SEED

Maximum rates are listed below Do not re-apply within 30 days

barley	0.53 fl oz per 100 lb commodity	beans	0.43 fl oz per 100 lb commodity
lima beans	0.46 fl oz per 100 lb commodity	birdseed	0.51 fl oz per 100 lb commodity
buckwheat	0.53 fl oz per 100 lb commodity	cocoa beans	0.59 fl oz per 100 lb commodity
corn	0.46 fl oz per 100 lb commodity	cottonseed	0.91 fl oz per 100 lb commodity
flax	0.46 fl oz per 100 lb commodity	grain sorghum	0.46 fl oz per 100 lb commodity
oats	0.8 fl oz per 100 lb commodity	field peas	0.43 fl oz per 100 lb commodity

rice	0 58 fl oz per 100 lb commodity	rye	0 46 fl oz per 100 lb commodity
wheat (club common durum) (emmer spelt)	0 43 fl oz per 100 lb commodity 0 64 fl oz per 100 lb commodity		

FOOD STORED IN BAGS

Storage areas containing food in impermeable bags may be treated with a space spray Do not exceed 0 4 fl oz of this product per 1000 cu ft of space treated Direct application to food contact surfaces is prohibited

OUTDOOR AREAS

Apply in a broadcast spray of insecticide at a maximum rate of 1 2 fl oz of this product per 1000 sq ft in treated areas such as non-agricultural rights-of-way commercial industrial or institutional properties outdoor eating establishments parks landscape turf home exteriors other building or industrial facilities outdoor mechanical equipment For crack and crevice or spot treatments the maximum rate is 8 fl oz of this product per 1000 sq ft

Do not apply more than once per day

OUTDOOR METERED RELEASE DEVICES

Directions for use in outdoor metered release devices

If the device works on an automatic timer set the timing for application when people pets and/or food are unlikely to be present

If the device works when a person operates a remote activation device then application of this pesticide when people pets and/or food are present is prohibited

Direct nozzle to spray towards the target area and away from areas where people are typically present

The pesticide container must be locked

Do not install within 3 feet of air vents air conditioner units or windows

Carefully follow directions for the dispenser unit when installing the dispenser and replacing cans or conducting maintenance

OUTDOOR ORNAMENTALS AND LAWNS

Sites such as trees shrubs flowers foliage plants lawns yards turf grass golf courses parks and landscape

When used as a broadcast surface application do not exceed 0 32 fl oz of this product per 1000 sq ft treated (16 fl oz per acre) When used as a crack and crevice or spot surface treatment (including applications for fire ants or turf diagnostic aid) do not exceed 8 fl oz of this product per 1000 sq ft of treated area

Do not apply more than once per day

PET PREMISES

May be used in a space spray application for pet premises Do not exceed 0 5 fl oz of this product per 1000 cu ft of space treated For broadcast surface sprays crack and crevice or spot surface treatments do not exceed 8 fl oz of this product per 1000 sq ft of treated area

DIRECT APPLICATION TO LIVESTOCK, DAIRY AND POULTRY ANIMALS

Tank mix this product with insecticides labeled for application directly to non-domestic animals (including lactating dairy animals meat and poultry animals) Do not apply more than 1 time per day Do not apply microencapsulated product to lactating or food animals

LIVESTOCK, DAIRY AND POULTRY PRODUCTION FACILITIES AND PREMISES

Tank mix this product with insecticides labeled for use in and around livestock dairy and poultry production facilities indoor agricultural premises commercial animal housing and equipment to improve kill of listed flying and crawling insects

WHEN ANIMALS ARE NOT PRESENT When used as a space spray do not exceed 4.0 fl oz of this product per 1000 cu ft of space treated For surface applications crack and crevice or spot surface treatments do not exceed 8 fl oz of this product per 1000 sq ft of treated area For metered-release device space sprays do not exceed 0.80 fl oz of this product per 1000 cu ft of space treated per day Do not apply more than 1 time per day

WHEN ANIMALS ARE PRESENT When used as a space spray when non-domestic animals are present do not exceed 1.28 fl oz of this product per 1000 cu ft of space treated

DIRECTION FOR USE IN COMMERCIAL ANIMAL PREMISES WITH AUTOMATIC MISTING

SYSTEMS Tank mix this product with insecticides labeled for application through automatic misting systems in animal premises

Not for use in outdoor residential misting systems (indoor or outdoor)

Do not apply when food feed and/or water is present

When using this product installers and service technicians must comply with the license certification or registration requirements of the state(s) tribe(s) or local authority(ies) where they are installed

When applying via a remote activation device do not apply when people and pets are present If possible when applying via automatic timer set the timer for application when people and pets are unlikely to be present

Direct nozzles to spray towards the target area and away from areas where people are typically present

Do not use in an evaporative cooling system

Do not use in misters located within 3 feet of air vents air conditioner units or windows

If used in a system with a reservoir tank for the end use dilution the system reservoir tank must be locked Securely attach the end use pesticide label and a dilution statement to the system reservoir tank in a weather protected area or plastic sleeve The dilution statement must be phrased as follows this container holds ___ parts Prentox PBO-8 to ___ parts water

If used in a direct injection system the pesticide container must be locked Securely attach the end use label to the pesticide container in a weather protected area or plastic sleeve

The product must only be used in systems that have been calibrated to apply no more than the maximum application rate of 0.008 lbs piperonyl butoxide per 1000 cu ft per day This is equivalent to the following amount of diluted solution per 1000 cu ft per day

16/19

Amount of Concentrate per gallon of water	% Piperonyl Butoxide	Maximum rate to be Applied (per 1000 cu ft per day)
0.35 oz	0.25%	49.0 oz
0.70 oz	0.50%	24.5 oz
1.05 oz	0.75%	16.4 oz
1.45 oz	1.00%	12.3 oz
1.75 oz	1.25%	10.0 oz
2.10 oz	1.50%	8.15 oz

OUTDOOR AGRICULTURAL PREMISES

When used as a broadcast surface spray application do not exceed 0.32 fl oz of this product per 1000 sq ft treated (16 fl oz per acre) For crack and crevice or spot surface sprays (including applications for fire ants or turf diagnostic aid) do not exceed 8 fl oz of this product per 1000 sq ft of space treated

Do not apply more than 1 time per day

NON-CROP USE RATES AND RESTRICTIONS

FOR GROWING PLANTS THAT WILL BE CONSUMED AS FOOD DO NOT EXCEED 0.384 FL OZ (2.3 TEASPOONS) OF THIS PRODUCT PER 1000 SQ FT PER APPLICATION

Non-Crop Mixing Rates Table

NOTE Always follow rates and restrictions of the insecticide label The following table refers only to the mixture rate of this product This product is not intended for use without an insecticide

Tank mix insecticide	If insecticide rate is	Then amount of this product is
Tau-fluvalinate 22.3% ai	0.2 fl oz	0.5 fl oz
	0.5 fl oz	1.25 fl oz
	4 – 10 fl oz	10 – 25 fl oz
Deltamethrin 4.75% ai	0.25 – 0.5 fl oz	0.25 fl oz
	0.75 fl oz	0.4 fl oz
	1 fl oz	0.5 fl oz
	1.5 fl oz	0.75 fl oz
	4 fl oz	2 fl oz
	8 fl oz	4 fl oz
Bifenthrin 7.9% ai	1 fl oz	0.8 fl oz
	2 fl oz	1.6 fl oz
	5 fl oz	4 fl oz
	10 fl oz	8 fl oz
	32 fl oz	26 fl oz
β-Cyfluthrin 11.8% ai	8 fl oz	0.34 fl oz
	12 fl oz	0.5 fl oz
	16 fl oz	0.68 fl oz
	24 fl oz	1 fl oz
	32 fl oz	1.25 fl oz
	40 fl oz	1.7 fl oz

Tank mix insecticide	If insecticide rate is	Then amount of this product is
	60 fl oz	2 5 fl oz
Esfenvalerate 6 4% ai	0 5 fl oz	0 35 fl oz
	1 fl oz	0 7 fl oz
Esfenvalerate 9 36% ai	0 4 fl oz	0 4 fl oz
	0 8 fl oz	0 8 fl oz
Esfenvalerate 3 48% ai	1 fl oz	0 3 fl oz
	2 fl oz	0 6 fl oz
Esfenvalerate 8 4% ai	2 9 fl oz	2 4 fl oz
	4 8 fl oz	4 fl oz
	5 8 fl oz	4 8 fl oz
	8 fl oz	6 4 fl oz
	9 6 – 14 5 fl oz	8 fl oz
Cyfluthrin 6% ai	1 fl oz	0 6 fl oz
	2 fl oz	1 2 fl oz
Lambda Cyhalothrin 9 7% ai	0 2 fl oz	0 25 fl oz
	0 4 fl oz	0 5 fl oz
	0 8 fl oz	1 fl oz
Cypermethrin 23 5% ai	0 33 fl oz	0 85 fl oz
	0 5 fl oz	1 3 fl oz
	0 65 fl oz	1 7 fl oz
	1 fl oz	2 5 fl oz
	1 3 fl oz	3 4 fl oz
	2 6 fl oz	6 7 fl oz
	5 1 fl oz	13 fl oz
Permethrin 36 8% ai	1 fl oz	0 4 fl oz
	1 67 fl oz	0 67 fl oz
	3 33 fl oz	1 33 fl oz
	6 67 fl oz	2 67 fl oz
	16 fl oz	6 fl oz
	1 gal	50 fl oz
	1 25 gal	64 fl oz
Permethrin 25 6% ai	0 64 fl oz	0 25 fl oz
	1 fl oz	0 25 fl oz
	1 28 fl oz	0 33 fl oz
	2 6 fl oz	0 67 fl oz
	3 75 fl oz	1 fl oz
	5 fl oz	1 25 fl oz
	6 fl oz	1 5 fl oz
	10 4 fl oz	2 5 fl oz
	1 gal	32 fl oz
Permethrin 10% ai	0 32 fl oz	0 25 fl oz
	0 64 fl oz	0 25 fl oz

Tank mix insecticide	If insecticide rate is	Then amount of this product is
	1 fl oz	0.25 fl oz
	3.2 fl oz	0.5 fl oz
	6.4 fl oz	0.5 fl oz
Imidacloprid 21.4% ai	1 fl oz	2.5 fl oz
	0.27 fl oz	0.67 fl oz
	0.54 fl oz	1.35 fl oz
	1.08 fl oz	2.7 fl oz
	1.35 fl oz	3.37 fl oz
	2.7 fl oz	6.75 fl oz
	5.4 fl oz	13.5 fl oz

In the absence of experience or data with growing plants a test for possible plant injury should be made on a small sample of the plants before widespread application

FOR INDOOR USE* To aid in prevention of pesticide resistance tank mix with pyrethroid insecticides Use at a 1% rate (1 ½ fl oz per gallon of finished spray)

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal Open dumping is prohibited

PESTICIDE STORAGE If container is damaged Stop leaks by repositioning the container or by patching or otherwise repairing the leaks Take care to avoid contact with the pesticide and wear protective gear On clean up of spilled liquids wear protective equipment as required to prevent contact with the product or its vapors Cover the spilled areas with generous amounts of absorbent material such as clay diatomaceous earth sand or sawdust Sweep the contaminated absorbent on to a shovel and put the sweepings into a salvage drum Dispose of wastes as below Place any leaking container into a similar drum or glass container Do not store use pour or spill near heat or open flames

PESTICIDE DISPOSAL Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

CONTAINER DISPOSAL Non-refillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying

[For Containers 5 gallons or less] 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 ¼ full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities

[For Containers larger than 5 gallons] Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container ¼ 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 reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities

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