

53883-258

06/26/2012

1/18

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D C 20460 0001



OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Anne Turnbough
Control Solutions Inc
5903 Genoa Red Bluff
Pasadena TX 77507 1041

JUN 26 2012

Subject Amended Reregistration Label
Product Name PBO Synergist
EPA Registration Number 53883 258
EPA Decision Number 374724

Dear Ms Turnbough

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 (PBO) 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 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

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product currently contains the Confidential Statements of Formulation (CSFs) listed below Any previously dated CSFs are superseded


1 Basic CSF dated 05/19/09

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 Gene Benbow at 703 347 0235 or benbow.gene@epa.gov

Sincerely



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

Enclosures *Acute Toxicity Review dated 07/08/10*
Product Chemistry Review dated 10/25/11
Label stamped Accepted dated JUN 26 2012

3/18

Control Solutions Inc PBO Synergist

[Alt Brand Name SynerPro™ PBO]
[Alt Brand Name SynerPro™ PBO Insecticide Synergist]
[Alt Brand Name SynerPro® PBO]
[Alt Brand Name SynerPro® PBO Insecticide Synergist]

For use as a synergist in a tank mix to improve control of insects Assists in inhibition of mixed function oxidase resistance in insects Increases insect susceptibility to insecticides

Active Ingredient	By Wt
Piperonyl butoxide	91.3%
Other Ingredients	8.7%
Total	<u>100.0%</u>

Contains 8.015 lb /gal piperonyl butoxide technical

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Net Contents _____

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 a 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 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
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. For additional information on this product (including health concerns, medical emergencies, or pesticide incidents) you may call SafetyCall® International for emergency medical treatment at (866) 897-8050</p>	

ACCEPTED
JUN 26 2012

Under the Federal Insecticide
Fungicide and Rodenticide Act,
as amended for the pesticide
Registered under
EPA Reg No 53683-258

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

CAUTION

Harmful if swallowed or absorbed through the skin Causes moderate eye irritation Avoid contact with skin eyes or clothing Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below Mixers loaders applicators and other handlers (including during mixing/loading repair and cleaning of equipment and disposal of pesticide) must wear the following

- Long sleeved shirt and long pants
- Chemical resistant gloves such as barrier laminate viton neoprene rubber or nitrile rubber
- Shoes plus socks

In addition to the above PPE mixers and loaders supporting aerial applications to forests and/or applicators using a high pressure handwand 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 or full face or hood style NIOSH Approved respirator with a dust/mist filtering cartridge with MSHA/ NIOSH approval number prefix TC 21C or a cartridge or 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 materials that have been drenched or heavily contaminated with this 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 flaggers are prohibited Flagging to support aerial application is limited to use of mechanical flaggers or GPS (Global Positioning System)

USER SAFETY RECOMMENDATIONS

Users should

- Wash hands with plenty of soap and water before eating drinking chewing gum using tobacco or using the toilet
- Remove clothing/PPE immediately if pesticide gets inside Then wash thoroughly and put on clean clothing
- Remove PPE immediately after handling this product Wash the outside of gloves before removing As soon as possible wash thoroughly and change into clean clothing

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 water 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

See Directions for Use for additional precautions and restrictions

PHYSICAL OR CHEMICAL HAZARDS

Do not use or 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
READ ENTIRE LABEL AND PAMPHLET USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS

For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation

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 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 areas during application For any requirements specific to your state or tribe consult the agency responsible for pesticide regulation

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

FOR SURFACE SPRAY USE

Except when applying to livestock do not enter or allow others to enter treated area until sprays have dried

FOR SPACE SPRAY OR FOGGER USE

Except when applying to livestock and with metered release devices do not enter or allow others to enter until vapors mists and aerosols have dispersed and the treated area has been

thoroughly ventilated

APPLICATION RESTRICTIONS

Except when applying to livestock and with a metered release device 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 and with a metered release device only protected handlers may be in the area during application

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

USE RESTRICTIONS

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

- Apply this product only as specified on this label
- Do not contaminate of food or feedstuffs
- Do not apply this product in a way that will contact adults children or pets either directly or through drift
- Only protected handlers may be in the treatment area during application
- For metered release devices Not for use in residential areas 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 Do not install within 3 feet of air vents Carefully follow directions for the dispenser unit and when replacing cans or conducting maintenance
- Do not use in aircraft cabins
- Do not wet plants to point of run off or drip Do not use treated articles until spray has dried
- Do not wet articles to point of runoff or drip
- Do not make applications during rain
- 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 Do not apply in windy conditions To prevent run off do not over water the treated area(s) or apply when heavy rain is expected Rinse application equipment only over lawn or garden area
- 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 within 14 days of seed harvest

- For indoor food handling/processing facilities Do not make space spray applications when facility is in operation During space spray applications cover or remove exposed food During space spray applications cover food processing surfaces or clean after treatment with a suitable detergent rinse with potable water 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

APPLICATION INSTRUCTIONS

PBO Synergist may be applied using ground application 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 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)

Aerial Applications

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 controlling 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

PBO Synergist is for use 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 ai/acre or 0.012 lb ai /1000 square feet
- Hydroponically grown crops – 1.0 ppm ai in water
- Greenhouse space sprays 0.0014 lbs ai/1000 cubic feet
- Greenhouse surface spray – 0.012 lbs per 1000 square feet or 0.5 lbs ai per 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) arrugula (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 brocflower cavolo broccolo Chinese broccoli (gai lan) broccoli raab (rapini) Brussels sprouts cabbage Chinese cabbage (bok choy) 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 canteloupe 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 (gai lan) Chinese cabbage (bok choy) Chinese mustard cabbage (gai choy) dasheen ginger ginseng Chinese longbeans mung beans citron melon balsam pear (bitter melon) Japanese radish (daikon) Chinese spinach Chinese waxgourd

SUBTROPICAL FRUITS

avaocado banana carob Barbados cherry charimoya dates durian (jackfruit) fejoa 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 cove 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 fuschia gardenia geranium gladiolus gloxinia gypsophila holly hyacinth hydrangia 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 PBO Synergist is intended for mixing with insecticides or acaracides listed PBO Synergist has no insecticidal activity of its own Rates indicated on this label refer to the proportion of PBO Synergist to be added to the insecticide or acaracide Carefully observe the label directions for the insecticide or acaracide 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 piperonyl butoxide

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 PBO Synergist per 62,500 gallons 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 ore than once per day
Greenhouse space spray	0.67 fl oz per 10,000cu ft	
Forestry	20 fl oz per acre	
Sod farms	16 fl oz per acre	

TANK MIXING

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 PBO Synergist 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) it is recommended that tank mixes be tested for any phytotoxic injury to a small sample of the plants to be treated prior to use

Calculating the amount of PBO Synergist

Most insecticides are synergized at a rate of 1 to 10 parts PBO Synergist 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 PBO Synergist desired (1 to 10) Then divide by 0.0625 (the amount of PBO Synergist ai in pounds per fluid ounces) This will be the number of fluid ounces of PBO Synergist to use

LB insecticide ai X ratio of PBO Synergist = Fluid ounces PBO Synergist required
0 0625

TANK MIX RECOMMENDED MIX RATES

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

Tank mix insecticide	If insecticide rate per acre is	Then PBO Synergist rate is
Abamectin 2% ai	5 – 10 fl oz	2 fl oz
	16 fl oz	3 fl oz
	20 fl oz	4 fl oz
β 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
	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
	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

PBO Synergist 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

NON CROP USES

PBO Synergist 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 PBO Synergist 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 PBO Synergist 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 PBO Synergist 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 PBO Synergist may be used to treat non food areas such as garbage rooms lavatories floor drains (to sewers) entries and vestibules offices locker rooms machine rooms boiler rooms garages mop closets and storage (after canning or bottling)

FOOD AREAS PBO Synergist 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 PBO Synergist 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. PBO Synergist 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 peanuts

When used as a space spray to fruits, vegetables and copra do not exceed 0.16 fl oz of PBO Synergist 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 PBO Synergist 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 PBO Synergist per 1000 lb of fruit. When used as a dip or spray do not exceed 0.64 fl oz of PBO Synergist 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)	0.43 fl oz per 100 lb commodity	emmer spelt	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 PBO Synergist 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 PBO Synergist 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 PBO Synergist per 1000 sq ft.

Do not apply more than once per day.

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 PBO Synergist 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 PBO Synergist 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 PBO Synergist 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 PBO Synergist per 1000 sq ft of treated area.

DIRECT APPLICATION TO LIVESTOCK, DAIRY AND POULTRY ANIMALS

PBO Synergist may be tank mixed 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

PBO Synergist may be tank mixed 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 PBO Synergist per 1000 cu ft of space treated. For surface applications, crack and crevice or spot surface treatments, do not exceed 8 fl oz of PBO Synergist per 1000 sq ft of treated area. For metered release device space sprays, do not exceed 0.80 fl oz of PBO Synergist 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 PBO Synergist per 1000 cu ft of space treated

Indoor Misting Systems Used in Commercial Barns, Stables and Animal Quarters

- 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 fo 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 timing 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 [product name] 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
- This product must only be used in systems that have been calibrated to apply no more than the maximum application rate of [insert product application rate]
- Note Also express this application rate as pounds or gallons of end use product formulation

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 food are/or 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 AGRICULTURAL PREMISES

When used as a broadcast surface spray application do not exceed 0.32 fl oz of PBO Synergist 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 PBO Synergist per 1000 sq ft of space treated Do not apply more than 1 time per day

PBO SYNERGIST 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 PBO SYNERGIST 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 PBO Synergist PBO Synergist is not intended for use without an insecticide

Tank mix insecticide	If insecticide rate is	Then PBO Synergist rate 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
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
	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

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage and disposal

PESTICIDE STORAGE Store in original container unopened in a cool dry place

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

CONTAINER HANDLING Non refillable container Do not reuse or refill this container Triple rinse 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 / 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 by other procedures approved by State or local authorities

**Control Solutions Inc ® Warranty
LIMITATION OF WARRANTY AND LIABILITY**

Read the entire direction for use conditions 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 risk 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 Control Solutions Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES To the extent consistent with applicable law, Control Solutions Inc. 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 Control Solutions Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Control Solutions Inc. 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 Control Solutions Inc. election, the replacement of product.

Optional Marketing Statements in []

- [For use in residential dwelling or indoors in commercial or institutional buildings (including food processing and handling areas), turf and ornamentals, crops (including greenhouses and nurseries), on livestock, and livestock housing.]

Control Solutions Inc
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EPA Reg No 53883 – 258
EPA Est No XXXXX XX XXX

Batch code _____