

# SYNERPRO<sup>®</sup> 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. For use in residential dwelling or indoors in commercial or institutional buildings (including food processing and handling areas), turf and omamentals, crops (including greenhouses and nurseries, on livestock, and livestock housing.]

#### ACTIVE INGREDIENTS:



See attached booklet for additional precautionary statements

EPA Reg. No. 53883-258 EPA Est. No. 53883-TX-002





Manufactured for:

Control Solutions Inc.

5903 Genoa-Red Bluff, Pasadena, TX 77507 A member of Adama Consumer and Professional Solutions

First Aid		
lf on skin or clothing	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	Call a poison control center or doctor immediately for treatment odvice.     Howe a person sig a glass of water if able to swallow.     Do not induce vormiting unless told to do so by a poison control center or doctor.     Do not give anything by mouth to an unconscious person.	
lf in Eyes	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.	
Have the product container or label with you when calling a poison control center or doctor, or going for heatment. For additional information on this product lincluding health concerns, medical emergencies, or pesticide incidents) you may call Safety(call® International for emergency medical heatment at (866) 897-8050.		

## 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 highpressure handwand in an enclosed area must wear at least a NIOSH-approved respirator with a dust/ mist filter with MSHA / MIOSH approval number prefix TC-21C or any N, R, P, or HE filter.

In addition to the above PPE, applicators using hand-held fogges in an enclosed area must wear a half-face or full face or hood syle MUSD-Hopproved registrator with a dust /mist filtering cartridge with MSHA / NUSH approval number prefix 1C-21C, or a cartridge or canister approved for pre-sticides (MSHA / NUSH approval number prefixed or cartister with any N, P, or at Efficient.

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 loundry.

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 equatic againisms, including fish and invertebrates. Drift and run-off may be hazardous to aquatic arganisms 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 doning sails and sails 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 washwaters 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 Warker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on firms, forests, nursenise and genehouses, and handles a drapicaltural pesticials. I contains requirements for training, decommission, and internaand emergency assistance. It disa contains specific instructions and exceptions pertaining to the statements on this label about pessoal protective expiratent (PFE) and extincted-entry interval. The requirements in this bac only apply to uses of this pould that are covered by the Worker Protection Shandard.

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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 in-

sects and mites. SynerPro® PBO aids in reducing axidative resistance that can develop in insects and mites. SynerPro® PBO 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 infrants, ill or oged persons are contined. Do not place metering device directly over or within 8 feet of exposed food, disher, uterails, food processing equipment and food handling or perparation. Do not install within 3 feet of air vents. Carefully follow directions for the disperser unit and when replacing areas 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 severs or drains, or to any area like a gutter where drainage to storm servers, water bodice, or aqualic holding can accur. Do not allow the product to enter any drain during or after application. Do not apply in windy conditions. To prevent runoff, do not overwater the treated area(s) or apply when heavy rain is expected. Rinse application equipment andy over time a gradem 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/live stock, greenhouse grown omamental, flowering and faliage plants and outdoor omamentals and lawns: Do not apply more than 1 time per day.
- For food craps 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 patable 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

SynerPro® PBO 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 opplication site is the responsibility of the applicator and the grower. The interactions of many equipment and weather vehicle factors determinis the potential for spray drift. The applicator and the grower are espaciable 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 in ito temperature invessions. Apply as makium ar coarse spray (JSABE Shandur S72).

#### **Aerial Applications**

Do not release spray or a height greater than 10 feet above the ground or corp concey. Boom length must not exceed 75% of the winggon or 90% of the rotor blade diamete. Aerial capitators 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 copilator must propersate for this downwind displacement at the downwind edge of the application area by adjusting the path of the aircard's 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 concey, Turn off outword-pointing nozzles when spraying row ends, and when spraying outer rows. SynerArd® P80 is for use as an additive to insecticides or acanicides capiled according to label directions on growing food, feed, or seed crops outdoors, or in greenhouses, or on domant 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

Amaacha, arrownost, purple arrownost, Japanese antichoke, Jeusalem antichoke, beets, sugabeets, edible burdock, carrot, cassara (bitter ar sweet), celekina, chevil (turnij notelet), chicary, dasheen (turo), ginger, ginseng, harse ndish, leen, paraley (turnij notele), parasing, potatnese, ndish. Japanese ndish (daikan), rutabaga, salsify, black solsify, Spanish salsify, sweet potatoes, turier (cascoum), turneia; Lurnijn, burg miss.

#### LEAVES OF ROOT AND TUBER VEGETABLES

Beets, sugarbeets, edible burdock, carrot, cassava (bitter or sweet), celeriac, chervil (turrip rooted), chicary, dasheen (taro), parsnip, radish, Japanese radish (daikon), rutabaga, black salsify, sweet potatoes, tanier (cocayam), turrip, 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 (Gedy amaranth, Chinese spinoch, tampala), arruguda (raquette), celery, celtoce, chervil, com salod, chrysanthennum (nöbble laoved), chrysanthennum (garland), cress (garden), cress (gainda, yellow rocket, winiter cress), dandelion, dock (sarnel), endive, escarale, fermel (Floernce), lettace (head and lear), arch, paraley, purslame (garden and wirler), nholadh, maraine, spinoch, fine spinoch (Maldbar, Gedyni), spinoch (flew Zealand), Swis chard.

#### BRASSICA (COLE) LEAFY VEGETABLES

Broccóli, brocoflower, cavolo broccolo, Chinese broccoli (gai lan), broccóli rado (rapini), Brussels sprouts, cabbage, (hinese cabbage (bok choy), Chinese cabbage (napa), Chinese mustard cabbage (gai choy), cauliflower, collards, kale, kahlrabi, mizuna, mustard greens, mustard spinach, rape greens.

#### LEGUME VEGETABLES (SUCCULENT OR DRIED)

Adzviki beans, asparagus beans, block-eyed peas, brood beans (frow beans), catingr, chick peas (garbanzo beans), (Ciinese longbeans, cowpaes, crowels peas, field beans, gave, jackbeans, sward beans, kolney beans, labab beans (hy acinit beans), liana beans, lentils, moth beans, murg beans, navy beans, peas (dwarf, addle, pod, Ergish), gadran gean, field, snowpeas, sugar smo peas), pigen peas, jainto beans, rice beans, name beans, snong peas, southerne poes beans, grain lunis, weet lupin, white youn, pole beans, repay beans, und beans, wae beans, yardlang 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), Clinese waxgourd (Clinese preserving melon), citran melon, cucumber, gherkins, edible gourds, melons (hyhrids, anamos, carany, canteloupe, casaba, charentis, cerexhaw, galia, hareydew, honeydalls, mangarnelon, muskamelon, Persiam melon, piel de sopo), pumpkin, squach (summer and winter), westem shipper melon, watermelon (including hyhrids, seeted and unseeted.)

#### 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, allalieberries, black raspberries, red raspberries, strawberries, yaungberries.

#### TREE NUTS

Almond, beech nut, Brazil nut, butternut, cashew, chestnut, chinquooin, filbert (hazelnut), hickory nut, macadamia nut (bush nut), pecan, pistochio, walnut (black and English or Persian).

#### **ORIENTAL VEGETABLES**

Japanese artichoke, Clinese brocoli (gai lan), Clinese cobbage (bok choy), Clinese mustard cabbage (gai choy), dasheen, ginger, girseng, Clinese longbears, mung beans, citron melon, balsam pear (bitter melon), Japanese radsh (daikon), Clinese spinach, Clinese wargourd.

#### SUBTROPICAL FRUITS

avaocado, banana, carob, Barbados cherry, charimoya, 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, sorghurn (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 fixestack, such as pasture grasses, range grasses, grasses grawn for hay or siloge, Bermuda grass, bluegrass, baromegrass, fescue, annual ryegrass, festulalium, hybrid ryegrass, Italian ryegrass, meadow fescue, anchard grass, Sudangrass, sorghum-Sudan, tall fescue, timathy, wheat hay, turgrasses, bentgrass, Kentucky bluegrass, specially grass.

#### NON-GRASS ANIMAL FEEDS

Alfalfa, velvet bean, clover, kudzu, lespedeza, lupin, sainfoin, trefoil, crown vetch, milk vetch.

#### HERBS AND SPICES

Allspice, angelico, anise (anise seed), annatho, balm, basil, barage, burnet, channomile, caper bads, caranavy, black caravory, cardimann, cassia bark, caraisa bads, crathip, celery seed, chevril, chines, Chinese chines, dany, cave bads, conitader (clanton cell chinese parskey), coincider (clantato) seed, contamy, clantato, curnit, curvite kat, socitariade (latilica and sweet), fenugueek, grains of paradose, harehound, hyssop, iuniper berry, lavender, lemangrass, lavage (leaf and seed), loce, manigold, mariparam (sweet, vikil), mustrad (seed), nastrutimun, natmag, oregana, miniparaika, parskey, pemyroyal, pepsee (vikile or black), popsyseed, rosemary, nue, saffran, sage, savary (including same are or vinite), sweet boy (bay ked), tarosy, tarragan, flyme, vanilla, vaderaces, writereeue, valoadal (warmovod.

#### OILSEED CROPS

Canola, crambe, rapeseed, flax, safflower, sesame, soybeans, sunflowers.

#### ADDITIONAL CROPS

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

#### ORNAMENTALS

#### Flowering plants

African violes, agentum, aster, azalea, begonia, cactus, calceolaria, calendula, callo, camellia, camartina, ceanothus, Christmus trees, conifer plantitions, conifer seed archards, cinearia, chrysanthemum, caleus, cychamea, cypres, dathadi, dahlia, delphinium, dogwood, fern, ficus, foliage plants, forest tree nuseries, palan and tropical tree nuseries, fuschia, gardenia, geranium, gladalus, glovrina, gyposphila, holy, hyacinth, hydrangia, iris, juriper, lify, maidenhair fern, marigald, narcisus, palm, parosp, pelanganium, peenov, pelunia, philodenhab, philos, pine, protocratha, thododendron, rose, rubber plant, snapdynagon, stock, sweet pea, tulip, viharmum, wandering lew, yew, zimina.

#### Trees and shrubs

Andrameda, adarvitae, ash, beech, birch, barwood, cotoneaster, arabagple, dagwood, elm, euonymus, fir, firethom, forsythia, hawthom, hemlock, hickary, hally, honey locust, horse chestruut, juniper, larch, laurel, lilac, linden, mimosa (silk tree), myrtle, ook, pine, privet, tulip tree (yellow poplar), willow.

## RATES

NOTE: SynerPro® PB0 is intended for mixing with insecticides or acancides listed. SynerPro® PB0 has no insecticidal activity of its rown. Rates indicated on this label refer to the proportion of SynerPro® PB0 to be added to the insecticide or acancide. Carefully observe the label directions for the insecticide or acancide 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 piperonly blowable.

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 reapply within	
Hydroponic crops	1.0 ppm ai in water (equivalent to 1 fl. oz. PBO Synergist per 62,500 gallons water.	24 hours. Do not apply to cotton within 14 days of seed harvest.	
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 per day	
Greenhouse space spray	0.67 fl oz per 10,000 cu ft	1	
Forestry	20 fl oz per acre	1	
Sod farms	16 fl oz per acre	1	

#### 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. *Hix* at a rate of 2 to 8 fl az of SynerPro® P80 per acre, based on the emount of active ingredient. In the adsence of specific data or prior experience on growing across and ornamentals (ourboors, in houses or indoors), it is recommended that track mixes be tested for any phytotaxic ripury to a small sample of the plants to be tested phirot to use.

#### Calculating the amount of SynerPro® PBO

Most insecticides are synergized at a rate of 1 to 10 ports Synerhvo<sup>®</sup> P80 active ingredient to 1 part insecticide active ingredient. Determine the amount of insecticide at to be used in pounds, then multiply that by the ratio of Synerhvo<sup>®</sup> P80 desired (1 to 10). Then divide by 0.0625 (the amount of Synerhvo<sup>®</sup> P80 at in pounds per fluid ources. This will be the number of fluid ources of Synerhvo<sup>®</sup> P80 to use.

LB insecticide at X ratio of SynerPro® PBO = Fluid ounces SynerPro® PBO 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 SynerPro® PBO 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

(continued)

Tank mix insecticide	If insecticide rate per acre is:	Then SynerPro® PBO rate is
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	51/3 - 211/3 fl oz	8 fl oz
lmidacloprid 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
lmidacloprid 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

Tank mix insecticide	If insecticide rate per acre is:	Then SynerPro® PBO rate is
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

SynerPro® PBO may be applied through the following types of sprinkler irrigation systems: center pivot, lateral move, end taw, 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 irrjection pipeline must contain a functional, automatic, quick-closing check valve to prevent flow of fluid bock toward the injection pump. The pesricide injection pipeline must also contain a functional, normally-closed solenaid-operated valve on the initiake side of the injection pump, and connected to the system inteleck, to prevent fluid from being dynom from the supply trank, when the initigation system is shut down manually or automatically. The system must contain functional interlocking controls to automatically stud off the pesticide injection pump when the pump motor stops. The injection line or water pump must in clude a functional pressure valve which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversary directed.

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 fime.

#### NON-CROP USES

SynerPro® PBO may be mixed with insecticides registered for use in the following areas:

Residential dwellings or indoors in commercial or institutional buildings incluting houses (indoor or outdoar), 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 SynerPro® PBO 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 SynerPro® PBO per 1000 sq ft of treated area. Do not apply more than 1 time per day.

For metered-telease device space sprays, do not exceed 0.80 fl oz of SynerPro® PBO 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)

NONFOOD AREAS: Synerthu® PBO may be used to treat non-food areas such as garbage rooms, lavatories, floor drains (to severs), entries and vestibules, affices, locker rooms, machine rooms, bailer rooms, garages, map closets and storage (after canning or bottling).

EOOD AREAS: SynerPro® PBO 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 SynePho<sup>®</sup> PBO except in mixture with an insecticide registered for use in post-harvest application to food commodine, carefully follow table directions for the insecticide being used. SynePho<sup>®</sup> PBO may be added to appropriately labeled insecticides an: polatoes, promatoes, peas, sweet polatoes, apples, blackberries, blueberries, boysenberries, cherries, anabaptes, currants, devolveries, figs, gooseberries, grapes, guavao, loganberries, mangoes, mustimelons, ananges, peaches, peas, jineargoles, plums, insplaneries, dimands, walnuist, corpa, perants.

When used as a space spacy to fruits, vegetables and copra, do not exceed 0.16 fl az of Syme?ho<sup>®</sup> PBO per 1000 cu fl af space heated. When used as a surface application to the commodifies listed, do not exceed 1.6 fl az of Syme?ho<sup>®</sup> PBO per 1000 sq fl of heated area. When used as a sufface application to fruit or tomatoes in baskets or hampers, do not exceed 0.013 fl az of Syme?ho<sup>®</sup> PBO per 1000 b of fruit. When used as a dip or spacy, do not exceed 0.64 fl az of Syme?ho<sup>®</sup> PBO per 10 galions of value.

#### STORED GRAIN AND SEED

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

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

#### 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 SynerPro® PBO 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 az Synerfro<sup>®</sup> PBO per 1000 sq ft. in treated areas such as nor-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 heatments, the maximum and is 8 th az Synerfro<sup>®</sup> PBO 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 SynerPro® P80 per 1000 sq ft treated (16 fl oz per acce). When used as a crack and arevice or spot surface treatment (including applications for fire ants or turf diagnostic aid), do not exceed 8 fl oz of SynerPro® P80 per 1000 sq ft of treated area.

Do not apply more than once per day.

#### PET PREMISES

Nay be used in a space spray application for pet premises. Do not exceed 0.5 fl oz of SynerPru® PBO per 1000 cu ft of space heated. For broadcast surface sprays, cuack and crevice or spot surface heatments, do not exceed 8 fl oz of SynerPru® PBO per 1000 sq ft of heated area.

#### DIRECT APPLICATION TO LIVESTOCK, DAIRY AND POULTRY ANIMALS

Syne?No® P80 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

SynerMro® PBD may be tank mixed with insecticides labeled for used 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.

W<u>HEN ANUMALS ARE NOT PRESENT:</u> When used as a space spray, do not exceed 4.0 fl ac of SynerPro® PBO per 1000 cu fl of space heated. For surface applications, conck and cevice ar spat surface heatments, do not exceed 8 fl ac of SynerPro® PBO per 1000 cu fl of space heated area. For metered-release device space sparsy, do not exceed 0.80 fl ac of SynerPro® PBO per 1000 cu fl of space heated area day and the day of the period.

WHEN ANIMALS ARE PRESENT: When used as a space spray when non-domestic animals are present, do not exceed 1.28 fl oz of SynerPro® PBO per 1000 cu ft of space treated.

#### INDOOR MISTING SYSTEMS USED IN COMMERCIAL BARNS, STABLES AND ANIMAL QUARTERS

- $\cdot$  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 to 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
   artach the end use pesticide belar and a dilution statement to the system reservoir tank in a weather protected area
   or plastic sleeve. The dilution statement must be phosed as follows: this container holds \_\_\_\_\_ parts [product name]
   to \_\_\_\_\_ parts wate.
- 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 fiming 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 spay application, do not exceed 0.32 fl ac of SynerPro® PBO per 1000 sq ft treated (16 fl ac per acce). For crack and crevice or spot surface sprays (including applications for fire ants or turf diagnostic aid), do not exceed 8 fl ac of SynerPro® PBO per 1000 sq ft of space treated. Do not apply more than 1 time per day.

#### SYNERPRO® PBO 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 SYNERPRO® PBO 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 SynerPro® PBO. SynerPro® PBO is not intended for use without an insecticide.

Tank mix insecticide	If insecticide rate is:	Then SynerPro <sup>®</sup> PBO 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	l fl oz
	32 fl oz	1.25 fl oz
	40 fl oz	1.7 fl oz
	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

(continued)

Tank mix insecticide	If insecticide rate is:	Then SynerPro® PBO rate is
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

Tank mix insecticide	If insecticide rate is:	Then SynerPro® PBO rate is
Permethrin 25.6% ai	0.64 fl oz	0.25 fl oz
	l 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	l fl oz
	5 fl oz	1.25 fl oz
	6 fl oz	1.5 fl oz
	10.4 fl oz	2.5 fl oz
	l 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-relifiable containes to not reuse or relifi this containes. Tiple rinse, or equivalent, promphy first emptyring. Tiple rinse as follows: Empty the emenining contents into application equipment or mix tank and darin for 10 seconds first the flow begins to day. Fill the containes / 4/u with watered net exp. Shale for 10 seconds. Pour instant into application equipment or a mix tank or store rinsets for later use or disposal. Danin for 10 seconds dare the flow begins to dains. Repeat this procedure two more times. Then offer for recycling or reconditions; pruncture and dispose of in a samitary handlil, or by other procedure sporeved by State a local autointies.

### 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 ink associated with the use of this product. Cop input, prelifectiveness or other winnlended corsequences may result because of such factors or weather conditions, preserve of other materiads, and the manner of use or apprication, all of which are beyond the control of Control Solutions, tor. All such risks shall be essuated by the user or buyer.

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LIMITATIONS OF LIABILITY: To the extent consistent with opplicable 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.



# 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. 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 housino.)

ACTIVE INGREDIENTS:

REACH OF CHILDREN CAUTION See attached booklet for additional

KEEP OUT OF

precautionary statements



EPA 062612/REV A

Manufactured for:

Solutions Inc.