

769-984

2/5/2014

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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 5, 2014

Mr. Keith Trombley  
Value Garden Supply, LLC  
P.O. Box 585  
St. Joseph, MO 64502

Dear Mr. Trombley:

Subject: label amendment to clarify directions for use  
AllPRO Evoluer 2-2 ULV  
EPA Registration Number 769-984  
Your submission dated September 6, 2012

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

A stamped label is enclosed for your records.

If you have any questions regarding this action, please contact Linda A. DeLuise of my team at (703) 305-5428.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Richard Gebken".

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

Enclosure

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# AllPro® Evoluer® 2-2 ULV

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

This product is Ready-To-Use as an All Temperature, Quick Knockdown, Low Odor, Non-Corrosive Synergized Synthetic Pyrethroid for Control of Adult Mosquitoes, Biting and Non-Biting Midges, Black flies and other outdoor flying insects as listed on this label which cause Public Health annoyance in Residential, Municipal and Recreational Areas. READ ENTIRE LABEL BEFORE USING

## READY-TO-USE

### ACTIVE INGREDIENTS:

*Permethrin.....	2.0%
**Piperonyl Butoxide .....	2.0%
OTHER INGREDIENTS***.....	96.0%
TOTAL.....	100.0%

\*(3-phenoxyphenyl)methyl(+/-)Cis/trans 3-(2,2-dichloroethenyl)2,2-Dimethyl cyclopropane carboxylate. cis/trans ratio: min. 35% (+/-) cis and max. 65% (+/-) trans.

\*\*Equivalent to 80% (butylcarbityl)(6-propylpiperonyl) ether and 20% related compounds

\*\*\*Contains petroleum distillates

Contains 0.143 pounds of Permethrin and 0.143 pounds of Piperonyl Butoxide per gallon.

## KEEP OUT OF REACH OF CHILDREN

## CAUTION

"PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente" (If you do not understand the label, find someone to explain it to you in detail).

### First Aid

**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**If 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.

**If 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 Inhaled:** 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 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 call 1-800-858-7378 for emergency medical treatment advice. See below for additional Precautionary Statements.

**Note to Physician:** Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

EPA Reg. No 769-984

EPA Est. No. 44616-MO-1

Net Contents \_\_\_ 1 gal. \_\_\_ 2.5 gal. \_\_\_ 5 gal. \_\_\_ 15 gal. \_\_\_ 30 gal. \_\_\_ 55 gal.

Value Garden Supply  
P.O. Box 585 • St. Joseph, MO 64502

This product will not dilute with water.

ACCEPTED

FEB - 5 2014

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg No. 769-984

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

Caution: Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or the toilet. Prolonged or repeated skin contact may cause allergic reactions in some individuals. Remove contaminated clothing and wash before reuse.

**Personal Protective Equipment:** Some Materials that are chemical-resistant to this product are nitrile and neoprene. If you want more options, follow the instructions for category E on an EPA chemical-resistance category selection chart. Mixers, applicators, and other handlers must wear: Long-sleeve shirt and long pants; shoes plus socks; chemical-resistant gloves for all handlers (except for applicators using motorized ground equipment, pilots, and flaggers); chemical-resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

See engineering controls for additional requirements.

**User Safety Recommendations:** User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**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.

**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters.

Under some conditions, it may also have a potential for transport into surface water runoff (primarily adsorbed to suspended soil particles), for several months or more after application. These include poorly drained or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlying tile drainage systems that drain to surface waters.

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

**PHYSICAL AND CHEMICAL HAZARDS**

Do not use, pour, spill 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.

### When to Apply

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

FOR BEST RESULTS, treat when mosquitoes or insects are most active and weather conditions are conducive to keeping the fog near the ground e.g. cool temperatures, and consistent wind speeds are not greater than 10 m.p.h. Applications during the cool hours of night or early morning are usually preferable.

Do not retreat site more than once in 3 days. Do not exceed 25 applications at 0.007 lbs permethrin per acre per application or 0.18 lbs of permethrin per acre per season. When targeting Aedes Taeniorhynchus, more frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne diseases in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

Apply when wind speed is greater than 1 mph. Do not apply by fixed wing aircraft at a height less than 100 feet, or by helicopter at a height less than 75 feet unless specifically approved by the state or tribe based on public health needs.

Application is prohibited directly into sewers or drains, or to any areas like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter drain during or after application. Not for use in metered release systems. Not for use in outdoor residential misting systems.

### RATES CHART FOR AIIPro Evoluer 2-2 ULV USE, UNDILUTED

CONDITIONS AND RATES TO USE AIIPro Evoluer 2-2 ULV UNDILUTED FOR MOSQUITO CONTROL

Permethrin lbs. A.I./Acre	PBO lbs. A.I./Acre	Application Rates Fluid Ounces per Minute at mph				Fluid Ounces and (milliliters) Per acre
		5 mph	10 mph	15 mph	20 mph	
0.00700	0.00700	18.9869	37.9739	56.9609	75.9479	6.2657 (185.2983ml)
0.00350	0.00350	9.4936	18.9873	28.4809	37.9745	3.1329 (92.6506 ml)
0.00175	0.00175	4.7467	9.4862	14.2400	18.9867	1.5664 (46.3238 ml)
0.00100	0.00100	2.7124	5.4248	8.1373	10.8497	0.8951 (26.4712 ml)

### 1 to 1 DILUTION RATES FOR AIIPro Evoluer 2-2 ULV

MIX 1 PART AIIPro Evoluer 2-2 ULV with 1 PART of a SUITABLE MINERAL OIL. APPLY AS FOLLOWS:

Pounds A.I. per Acre		Application Rates Fluid Ounces per Minute at Vehicle Speeds				Fluid Ounces and (milliliters) Finished Spray Per acre
Permethrin	PBO	5 mph	10 mph	15 mph	20 mph	
0.00700	0.00700	37.9739	75.9478	113.9218	151.8958	12.5314
0.00350	0.00350	18.9872	37.9746	56.9618	79.9490	6.2658
0.00175	0.00175	9.4934	18.9724	28.4800	37.9734	3.1328
0.00100	0.00100	5.4248	10.8496	16.2746	21.6994	1.7902

### HOW TO APPLY

For proper ground application mount the fog applicator so that the nozzle is at least 4½ feet above the ground level and directed out the back of the vehicle. Failure to follow these label directions may result in

reduced effectiveness. For Aerial Application refer to the "Aerial Application" section on this label. **AIIPro Evoluer 2-2 ULV** may be used as is, or diluted with a suitable solvent such as 60 to 100 second viscosity mineral oil and applied at a rate not to exceed 6.2657 fl.oz. of **AIIPro Evoluer 2-2 ULV** per acre. Both aerial and ground applications should be made when the wind is less than 10 mph. For exact rates, see the "Undiluted" or the "1 to 1 Dilution" rate charts on this label.

**AIIPro Evoluer 2-2 ULV** is recommended for application as an Ultra Low Volume (ULV) Thermal or Non-Thermal aerosol (cold fog) to control adult mosquitoes, and other insects as listed on this label, in residential and recreational areas where these insect pests become a problem; such as, but not limited to parks, campsites, woodlands, athletic fields, golf courses, residential areas, municipalities, gardens, playgrounds, and non-crop waste areas

**AIIPro Evoluer 2-2 ULV** can be applied over specific growing crops and range grasses prior to harvest for the control of adult mosquitoes and biting flies within or adjacent to these areas. Application can only be made where the following crops are present:

Alfalfa	Celery	Garlic	Peppers, bell
Almonds	Cherries	Kiwifruit	Pistachios
Apples	Corn, forage	Horseradish	Potato
Artichokes, globe	Corn, fodder	Leafy vegetables, except Brassica	Range grasses
Asparagus	Corn, grain (field & pop)	Lettuce, head	Soybeans
Avocados	Corn, stover	Mushrooms	Spinach
Broccoli	Corn, sweet Kernel + cob with Husks removed	Onions, dry bulb	Tomatoes
Brussels sprouts	Eggplant	Peaches	Vegetables, cucurbit
Cabbage	Filberts	Pears	Walnuts
Cauliflower			Watercress

Do not allow spray treatment to drift on cropland (other than crops listed) or water supplies. In treatment of corrals, feedlots, animal confinements/houses, swine lots and zoos, cover any exposed drinking water, drinking fountains and animal feed before application.

### ULV NON-THERMAL AEROSOL (COLD FOG)

To control Mosquitoes, Midges and Black flies, apply **AIIPro Evoluer 2-2 ULV** using any standard ULV ground applicator capable of producing a non-thermal aerosol fog and base all acreage calculations on the equipment manufacturer's recommended swath width.

Spray equipment must be adjusted so the volume median diameter or mass median diameter is less than 30 microns (Dv 0.5 < 30 µm) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50 µm). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to product acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rates(s) are properly calibrated. Apply at a rate not to exceed 0.007 pounds of permethrin per acre.

When applying this product undiluted, apply at a flow rate of 5.4248 to 37.9739 ounces per minute at an average vehicle speed of 10 mph. These rates are equivalent to 0.001 to 0.007 pound of permethrin a.i. and 0.001 to 0.007 pound of piperonyl butoxide a.i. per acre. If a different vehicle speed is used, adjust the rate accordingly. Vary flow rates according to vegetation density and mosquito population. Use higher flow rates in heavy vegetation or when insect populations are high. An accurate flow rate control system must be used to ensure proper flow rate. **AIIPro Evoluer 2-2 ULV** may also be applied by diluting 1 part to 1 part of a 60 to 100 second mineral oil or another suitable solvent applies so as not to exceed the maximum a.i. rates per acre as shown in the rate charts. If an alternate dilution rate is required, adjust the flow rate accordingly, provided the droplet size and spectrum remain within the label specifications. Do not exceed a flow rate of 20 oz. per minute unless recommended by equipment manufacturers and/or Public Health Officials when undiluted or diluted 1 to 1, and high vehicle speeds of 10, 15 or 20 mph are

necessary in emergency conditions, and when fogging equipment is capable of such higher rates of output per minute.

### THERMAL AEROSOL FOGGING

**TRUCK MOUNTED:** Apply **AIIPro Evoluer 2-2 ULV** diluted or undiluted with suitable Thermal Fogging equipment. Droplet size of thermal "fog" will range 0.1 to 1.0 micron. If diluted use a 60 to 100 second viscosity mineral oil, or another suitable non-phytotoxic diluent, to reduce oil requirement and sludge buildup in equipment. Do not exceed the maximum rates. May be applied at speeds of 5 mph up to 20 mph.

**HAND CARRIED and/or LAWN MOWER FOGGERS,** use the same rates of a.i. per acre with a 50 foot swath width at a walking speed of 2 mph. Do not fog to wet foliage. Do not fog when wind conditions exceed 10 mph. Only use a clean, well maintained, and properly calibrated fogger, known to give excellent performance. Fog downwind. Apply **AIIPro Evoluer 2-2 ULV** to deliver 0.001 to 0.007 pound of permethrin a.i. per acre and 0.001 to 0.007 pound of piperonyl butoxide a.i. per acre.

### INSECT BARRIER APPLICATIONS

For use in Non-Thermal ULV, motorized, portable backpack fog type mist blower equipment, apply **AIIPro Evoluer 2-2 ULV** with equipment adjusted to deliver ULV particles of 30 to 100 mass median diameter. Use up to 0.1 of permethrin a.i. per acre at a 300 ft. (91 m) swath width while walking at a speed of 2 mph (3.2 kph). Make sure that the same amount (0.1 lb.) of permethrin a.i. and piperonyl butoxide a.i. is applied per acre.

When this product is applied as a barrier application using low pressure hand sprayers, hydraulic sprayers or ground ULV equipment, do not apply within 100 feet (30 meters) of lakes and streams.

### AERIAL APPLICATION

Apply **AIIPro Evoluer 2-2 ULV** either diluted or undiluted at rates up to 0.007 lbs. Permethrin/PBO per acre by fixed wing or rotary aircraft equipped with a spraying system capable of making a ULV application.

For aerial applications of **AIIPro Evoluer 2-2 ULV** made at  $\leq 200$  feet above ground elevation, use ULV equipment and nozzles such as rotary atomizers or similar spray equipment. Spray equipment must be adjusted so the volume median diameter produced is less than 60 microns ( $Dv\ 0.5 < 60\ \mu m$ ) and that 90% of the spray is contained in droplets smaller than 115 microns ( $Dv\ 0.9 < 115\ \mu m$ ). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to product acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rates(s) are properly calibrated.

For aerial applications of **AIIPro Evoluer 2-2 ULV** made at  $> 200$  feet above ground elevation, use ULV equipment and nozzles such as rotary atomizers or similar spray equipment. Spray equipment must be adjusted so the volume median diameter produced is less than 70 microns ( $Dv\ 0.5 < 70\ \mu m$ ) and that 90% of the spray is contained in droplets smaller than 145 microns ( $Dv\ 0.9 < 145\ \mu m$ ). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to product acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rates(s) are properly calibrated.

Aerial application of **AIIPro Evoluer 2-2 ULV** shall be made at altitudes ranging from 100 feet to 300 feet. Do not apply when ground wind speed equals 0 MPH or when ground wind exceeds 10 MPH. The recommended airspeed for Fixed Wing aircraft with flat fan nozzles is from 120 to 160 mph. For Rotary Aircraft equipped with rotary nozzles, apply at a sufficient airspeed to deliver the appropriate amount of **AIIPro Evoluer 2-2 ULV** a.i. per acre. Do not exceed 6.2657 fluid ounces per acre of **AIIPro Evoluer 2-2 ULV** which is equal to 0.007 lb. permethrin a.i. per acre and 0.007 lb. piperonyl butoxide a.i. per acre.

IN FLORIDA: Do not apply by aircraft unless approved by the Florida Department of Agriculture and Consumer Services.

**STORAGE AND DISPOSAL**

Do not contaminate water food or feed by storage or disposal.

**Pesticide Storage and Spill Procedures:** Store in upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

**Pesticide Disposal:** Pesticide spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

**Container Handling: Nonrefillable container.** Do not reuse or refill this container. Triple rinse or pressure rinse container promptly after emptying. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**Triple Rinse as Follows - Containers 5 gallons or less in capacity :** Do not reuse or refill this container. Triple rinse or pressure rinse container 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 container ¼ full with mineral oil 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. **Containers greater than 5 gallons in capacity:** Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with mineral oil. 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.

**Pressure Rinse as Follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**READ ENTIRE LABEL BEFORE USING**

Read the entire **Directions for Use, Conditions, Disclaimer of Warranties, and Limitation of Liability** before using this product. By using this product, User and Buyer accept the following Conditions and Disclaimer.

**CONDITIONS:** The Directions for Use of this product are believed to be adequate and should be followed carefully. However it is impossible to eliminate all risks associated with the use of this product. 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 **Value Garden Supply**. All such risks shall be assumed by the User or Buyer.

**DISCLAIMER:** Value Garden Supply warrants that this product conforms to the chemical description on the label and reasonably fit for the specific purposes referred to in the Directions For Use, subject to the inherent risks referred to above. Value Garden Supply makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty. To the extent consistent with applicable law, Value Garden Supply shall not be liable for consequential, special, or indirect damages resulting from the use, handling or application of this product.