

# SynPer® 30-30-ULV

**ACCEPTED**  
 JUN 13 2002  
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 73607-3

73607-3

**For Application by Public Health Officials and Trained Personnel of Mosquito Abatement Districts and Other Mosquito Control Programs. An All Temperature, Quick Knockdown, Low Odor, Non-Corrosive, Synergized, Synthetic Pyrethroid for use in the control of Adult mosquitoes, Biting and Non-Biting Midges and Black flies in Residential, Recreational, and Non-Crop Areas.**

**DIRECTIONS FOR USE**

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

**HOW TO APPLY**

For proper ground application mount the fog applicator so that the nozzle is at least 4 1/2 feet above ground level and directed out the back of the vehicle. May be applied at speeds of 5 m.p.h. up to 20 m.p.h. Failure to follow these label directions may result in reduced effectiveness. For "Aerial Application refer to the "Aerial Application section on this label. SynPer 30-30 ULV may be used as is, or diluted with a suitable solvent such as a 60 to 100 Sec. mineral oil and applied at a rate not to exceed 0.9789 fl. oz. of SynPer 30-30 ULV, per acre. Both aerial and ground applications should be made when the wind is less than 10 M.P.H. For exact rates see the "UNDILUTED" or the "DILUTION" Rates charts on this label. SynPer 30-30 ULV is recommended for application as an Ultra Low Volume (U.L.V.) 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. Do not apply this product within 100 feet (30 Meters) of lakes and streams. Do not allow treatment to drift on pastureland, cropland, poultry ranges, or water supplies. FOR BEST RESULTS treat when mosquitoes or insects are most active and weather conditions are conducive to keeping the fog close to the ground, e.g. cool temperatures and wind speeds are not greater than 10 m.p.h. Applications during the cool hours of night or early morning are usually preferable. Repeat treatment when recommended by Public Health officials, or mosquito Abatement Districts.

**THERMAL AEROSOL FOGGING**

**TRUCK MOUNTED** - Apply SynPer 30-30 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 m.p.h. up to 20 m.p.h. For use with 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 m.p.h. Do not fog wet foliage to runoff for tender, desirable vegetation may be temporarily damaged. Do not fog when wind conditions exceed 10 miles per hour. Only use a clean, well maintained, and properly calibrated Fogger, known to give excellent performance. Fog Down wind. Apply SynPer 30-30 ULV to deliver 0.00175 to 0.01850 lb. of Permethrin a.i. and 0.00175 to 0.01850 lb. of Piperonyl Butoxide a.i. per acre. Droplet size of thermal "fog" will be very small usually in the 0.5 to 1.0 micron range.

**AS AN INSECT BARRIER - USE A "BACKPACK" FOG - MIST BLOWER**

For use in Non-Thermal ULV, motorized, portable, Backpack, Fog type Mist Blower equipment apply SynPer 30-30 ULV with equipment adjusted to deliver ULV particles of 50 to 100 mass median diameter. SynPer 30-30 ULV may be applied undiluted or diluted (see Application Rates tables section). If diluted use a 30 to 100 second mineral oil, or another, (if recommended by Public Health Officials), suitable non-phytotoxic diluent. Use 0.00175 to 0.0185 pound Permethrin A.I. per acre at a 50 ft. (15.2 m) swath width, while walking at a speed of 2 m.p.h. (3.2 k.p.h.). Whether applied undiluted or diluted, or at a different speed, make sure that the same amount of Permethrin A.I. is applied / acre.

**\*\*AERIAL APPLICATION**

The use of specially designed aircraft capable of applying ULTRA LOW VOLUMES of SynPer 30-30 ULV at the Application Tables rates, may be considered necessary when conducted at the discretion of Public Health Officials, Mosquito Abatement Districts, or other trained personnel engaged in outdoor Mosquito and flying insect control programs when these insects threaten to become a public health hazard. Aerial applications should be made by suitable aerial ULV equipment capable of producing droplets with an MMD 50 or less, with no more than 2.5% exceeding 100 microns. Flow rate and swath width should be set so as to not exceed 0.9789 fluid ounce (0.0185 # permethrin and 0.0185# piperonyl butoxide a.i.) per acre. **PROHIBITION ON AERIAL USE IN FLORIDA:** Not for aerial application in Florida unless authorized by the Bureau of Entomology and the Florida Dept. of Ag. and Consumer Services.

**STORAGE & DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. **STORAGE AND SPILL PROCEDURE:** Store upright at room temperatures. Do not expose to extreme temperatures. In case of spill or leakage, ventilate the area, wear chemical resistant gloves, and footwear. Soak-up the liquid with absorbent material such as sawdust, soil, fuller's earth, etc. Dispose of the resulting chemical waste, as follows. **PESTICIDE DISPOSAL:** Wastes resulting from a spill or the use of this product may be disposed of on site, or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Metal Containers - Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic Containers - Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration or if allowed by State and local authorities, by burning. If burned stay out of smoke.

**For Control of Adult Mosquitoes**

**Net Contents (5); or (30); Gallons**

**ACTIVE INGREDIENTS:**  
 Permethrin: CAS [52645-53-1] ----- 30.0%  
 Piperonyl Butoxide CAS [51-03-6] ----- 30.0%  
**OTHER INGREDIENTS:** ----- 40.0%  
 Total 100.0%

\*Contains Petroleum Distillate

Contains 2.42 lbs. A.I. Permethrin per gallon and 2.42 lbs. A.I. 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\*

**FIRST AID**

**IF SWALLOWED** - Immediately call a Poison Control Center or doctor. Do not induce vomiting unless told to by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING** - Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. **NOTE:** Have this product container or label with you when calling a poison control center or doctor or when going for treatment. Read entire label for Additional Precautionary Statements. **NOTE TO PHYSICIAN:** "Solvent presents an aspiration hazard. Gastric lavage is indicated if material was taken internally. Vomiting may cause aspiration pneumonia.

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

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

**ENVIRONMENTAL HAZARDS**

This product is extremely toxic to fish and aquatic invertebrates. 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 apply when weather conditions favor drift and runoff from treated areas. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not allow spray treatment to drift to pastureland, cropland, poultry ranges or water supplies. Do not contaminate water when disposing of equipment washwaters.

**Bee Warning:** This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift onto blooming crops or weeds while bees are actively visiting the treatment areas.

**PHYSICAL AND CHEMICAL HAZARDS**  
 Do not use, pour, spill or store near heat or open flame.

**NOTICE:**

Buyer and user assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

EPA Reg. No. 73607-3 EPA Est. No. 53883-TX-1

**IDC Corp.**  
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**DIRECTIONS FOR USE (cont.)**

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

SynPer 30-30 ULV is recommended for application as an Ultra Low Volume (ULV) non-thermal aerosol (Cold Fog) to control adult mosquitoes, flies and gnats in residential and recreational areas where these insects are a problem, such as but not limited to parks, campsites, woodlands, athletic fields, golf courses, residential areas, municipalities, gardens, playgrounds, recreational areas and non-crop waste areas. Do not apply within 100 feet (30 meters) of fish bearing waters. Do not allow spray treatment to drift onto pastureland, cropland, poultry ranges or water supplies. For best results treat when insects are most active and conditions are conducive to keeping the fog close to the ground. Repeat treatment when recommended by Public Health Officials or Mosquito Abatement Districts. To control Mosquitoes, Midges and Blackflies apply SynPer 30-30 ULV using any standard U.L.V. ground applicator capable of producing a non-thermal aerosol fog with droplets ranging in size from 5 to 30 microns in diameter and a mass median diameter (MMD) of 15 to 20 microns, (droplets should not exceed 50 microns and less than 5% of drops should be below 5 microns), with an application swath width of 300 feet. When applying this product undiluted, apply at a flow rate of 0.5556 to 5.8734 ounces per minute at an average vehicle speed of 10 M.P.H. These rates are equivalent to 0.00175 to 0.0185 pound of permethrin a.i. and 0.00175 to 0.0185 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. SynPer 30-30 ULV may also be applied by diluting with a 60 to 100 second mineral oil or another suitable solvent, applied so as not to exceed the maximum a.i. rates per acre as shown below. If an alternate dilution is required, adjust the flow rate accordingly, provided droplet size and spectrum remain within label specifications. Do not exceed a flow rate of 20 oz. per minute unless recommended by equipment manufacturers and /or Public Health Officials when diluted 1 to 8 and high vehicle speeds of 15 to 20 m.p.h. are necessary in EMERGENCY CONDITIONS and when fogging equipment is capable of such higher rates output per minute.

**CONDITIONS AND RATES TO USE SYNPER 30-30 11' ULV UNDILUTED**

pounds a.i. per acre		APPLICATION RATES				FL.oz. of SynPer 30-30 ULV PER ACRE
PERMETHRIN	PBO	FL. OZ. PER MINUTE AT M.P.H.				
		5 MPH	10 MPH	15 MPH	20 MPH	
0.01850	0.01850	2.9367	5.8734	8.8101	11.7468	0.9789
0.00700	0.00700	1.1112	2.2224	3.3336	4.4448	0.3704
0.00350	0.00350	0.5556	1.1112	1.6668	2.2224	0.1852
0.00175	0.00175	0.2778	0.5556	0.8334	1.1112	0.0926

**DILUTION RATES FOR SynPer® 30-30 ULV**

**FOR A 1:4 Dilution**

Mix 1 part SynPer 30-30 ULV with 4 parts Suitable Mineral Oil; apply as follows:

pounds a.i. per acre		Application Rates				Fl. oz. finished spray per acre
PERMETHRIN	PBO	Fl. oz. per Minute at Vehicle Speeds				
		5 MPH	10 MPH	15 MPH	20 MPH	
0.00700	0.00700	5.526	11.053	16.579	22.1052	1.8421
0.00350	0.00350	2.763	5.526	8.299	11.0532	0.9211
0.00175	0.00175	1.381	2.764	4.145	5.5272	0.4606

**FOR A 1:8 Dilution**

Mix 1 part SynPer 30-30 ULV with 8 parts Suitable Mineral Oil; apply as follows:

pounds a.i.'s per acre		Application Rates				Fl. oz. finished spray per acre
PERMETHRIN	PBO	Fl. oz. per Minute at Vehicle Speeds				
		5 MPH	10 MPH	15 MPH	20 MPH	
0.00700	0.00700	10.000	20.000	30.000	40.000	3.3334
0.00350	0.00350	5.000	10.000	15.000	20.000	1.6667
0.00175	0.00175	2.500	5.000	7.500	10.000	0.8334

**FOR A 1:2 Dilution**

Mix 1 part SynPer 30-30 ULV with 2 parts Suitable Mineral Oil; apply as follows:

pounds a.i.'s per acre		Application Rates				Fl. oz. finished spray per acre
PERMETHRIN	PBO	Fl. oz. per Minute at Vehicle Speeds				
		5 MPH	10 MPH	15 MPH	20 MPH	
0.00700	0.00700	3.3336	6.6672	10.0000	13.3344	1.1112
0.00350	0.00350	1.6668	3.3336	5.0004	6.6672	0.5556
0.00175	0.00175	0.8334	1.6667	2.5002	3.3336	0.2778

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11