



Aqua-Pursuit™ ULV

For use only 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.

ACTIVE INGREDIENTS:

*Permethrin 20.6%

**Piperonyl Butoxide Technical 20.6%

INERT INGREDIENTS:..... 58.8%

TOTAL..... 100.0%

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

**Equivalent to 80% (butylcarbityl)(6-propylpiperonyl) ether and 20% related compounds. Contains 1.75 pounds of Permethrin and 1.75 pounds of Piperonyl Butoxide per gallon.

EPA Reg. No. 53883-274-86291

EPA Est. No. 53883-TX-002

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See attached booklet for additional precautionary statements

Manufactured For:
Precision Control Technology, Inc.
111 South Calvert Street,
Suite 1800
Baltimore, Maryland 21202

NET CONTENTS:

2.5 GALLON

Product Code: 2020025

30 GALLON

Product Code: 2020030

275 GALLON

Product Code: 2020275

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- Controls Adult Mosquitoes (including organophosphate resistant Mosquitoes), Midges (Biting and Non-Biting) and Blackflies
- Quick Knockdown and Effective Control of Target Insects
- ULV, Thermal and Barrier Applications using Ground and Aerial Equipment for control of Adult Mosquitoes and other Biting Flies
- For Surface and Barrier Applications using Handheld Equipment
- May be Applied Undiluted, or Diluted with Water or Oil
- For ULV Applications at rates up to 0.007 lbs. a.i. per acre
- For Barrier Application at rates up to 0.1 lbs. a.i. per acre
- Can be used with Injector Mixing Systems or other Insecticide Mixing Systems

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KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
If Swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Have person sip a glass of water if able to swallow. • Do not give anything by mouth to an unconscious person.
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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact Poison Control Center at 800-222-1222 for emergency medical treatment information.	

See Inside Booklet for Additional Precautionary Statements

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 Precision Control Technology, Inc.
 111 South Calvert Street, Suite 1800
 Baltimore, Maryland 21202

EPA Registration No. 53883-274-86291
 EPA Establishment No. 53883-TX-002

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

CAUTION

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

ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

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

Combustible. 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.

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.

HOW TO APPLY AND WHERE TO USE

Aqua-Pursuit ULV is designed for application as an Ultra-Low Volume (ULV) or thermal aerosol to control adult mosquitoes and flies of nuisance, public health or disease vector importance in areas such as but not limited to: residential areas, industrial areas, commercial areas, urban areas, parks, campgrounds, woodlands, athletic fields, golf courses, playgrounds, recreational areas, overgrown waste areas, roadsides, corrals, feedlots, animal confinements/houses, swine lots and zoos and other areas, where adult mosquitoes and flies may be found.

Aqua-Pursuit ULV is recommended for application with ULV cold aerosol generators, mist-blowers, backpack sprayers, or handheld sprayers. Mist-blowers, backpack sprayers, handheld sprayers and low-pressure hand sprayers may be used for barrier or surface applications.

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 mph. Applications during cool hours of night or early morning are usually preferable.

Do not retreat the same site more than once in 12 hours. Do not apply more than 0.18 lbs. of permethrin per acre per year to any site. 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 disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

Aqua-Pursuit 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:

Almonds	Leafy Vegetables (except Brassica)
Apples	Lettuce, head
Broccoli	Mushrooms
Brussels sprouts	Onions, dry bulb
Cabbage	Peaches
Celery	Pears
Cauliflower	Peppers, bell
Cherries	Soybeans
Corn, fodder	Tomatoes
Corn, forage	Vegetables, cucurbit
Corn grain	Walnuts
Eggplant	
Range Grasses	

Do not allow spray treatment to drift on pastureland, 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.

Aqua-Pursuit ULV provides effective control of adult mosquitoes, black flies, gnats, biting and non-biting midges, stable flies, horse flies, deer flies, sheep flies, horn and heel flies, and nuisance flying insects such as houseflies.

Air temperatures should be greater than 50° F when conducting all types of applications.

GROUND APPLICATION

Vehicle-Mounted ULV Cold Aerosol Generators (Cold Fog): Apply through non-thermal ULV application equipment and base all acreage calculations on the equipment manufacturers 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 μ m) and that 90% of the spray is contained in droplets smaller than 48 microns (Dv 0.9 < 48 μ 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 produce 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. An optimum swath is created when **Aqua-Pursuit ULV** is applied from a truck being driven perpendicular to the wind direction. Direct the spray head of the equipment to ensure an optimum distribution of the spray cloud throughout the area. For best results, apply when insects are most active and meteorological conditions are conducive to keeping the spray cloud near the ground. An inversion of air temperatures and a light breeze of approximately 1 to 3 mph is preferable. During applications consistent ground wind speeds should not exceed 10 mph. Application of this product during cooler hours of the night or early morning is recommended.

Aqua-Pursuit ULV may be applied through all ULV Cold Aerosol Generators, or other similar equipment designed for non-thermal ULV aerosol applications. The desired application rate may be obtained from the chart below or by altering the dilution rate of **Aqua-Pursuit ULV**, the flow rate of the insecticide from the application equipment and the vehicle speed. Some examples are provided in the following chart. When an alternate rate is required, adjust the flow rate accordingly, provided the droplet size and spectrum remain within the label specifications.

FLOW RATE (Fluid Ounces Per Minute)						
Dilutions Based on a 15 Gallon Tank*						
Application Rate (Pounds of Permethrin a.i./Acra)	Vehicle Speed (MPH)	Undiluted	Diluted 1:3	Diluted 1:4.5	Diluted 1:6.5	Diluted 1:9
0.0015	10	0.7	2.8	3.7	5.25	6.7
	15	1.05	4.2	5.5	7.89	10.0
	20	1.4	5.6	7.3	10.50	14.0
0.0035	10	1.55	6.2	8.6	11.7	15.6
	15	2.35	9.3	12.8	17.5	23.3
	20	3.1	12.5	17.2	23.4	
0.007	10	3.1	12.4	17.0	23.2	
	15	4.65	18.6	25.5		
	20	6.2	24.7			

***Dilution Instructions:** Fill tank with the recommended amount of water, start agitation then add the correct amount of **Aqua-Pursuit ULV**. The use of metering pumps, injector systems or other mixing systems is optional. Note: When using oil as a diluent, agitate well before use.

Where dense vegetation is present, use higher rates of application and/or a slower speed for best results. All applications should be conducted when temperatures are greater than 50° F.

BACKPACK OR HANDHELD SPRAYER APPLICATION: Apply through non-thermal ULV application equipment and base acreage calculations on a 300-foot swath. To apply undiluted at 0.007 pounds of permethrin per acre adjust equipment to an output rate of 1.24 ounces per minute and walk at 4 mph. To apply 0.0035 pounds of permethrin per acre, dilute 1 part **Aqua-Pursuit ULV** with 5 parts of diluent and apply at a rate of 3.8 ounces per minute and walk at 4 mph.

THERMAL AEROSOL APPLICATION: For use in truck-mounted, handheld or other thermal fogging equipment. Spray equipment must be adjusted so the volume median diameter or mass median diameter is less than 30 microns (Dv 0.5 < 30 μ m) and that 90% of the spray is contained in droplets smaller than 48 microns (Dv 0.9 < 48 μ 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 produce 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 this product mixed with water or oil at a rate not to exceed 0.007 lbs. per acre. Base acreage calculations on a 300 feet swath. For best results, direct the thermal fog into and allow to drift through areas where adult mosquitoes are found.

BARRIER APPLICATIONS: To exclude and control resting or flying adult mosquitoes in areas such as animal quarters, roadsides, urban areas, residential areas, commercial areas, industrial areas, golf courses, parks, recreational areas, tire piles and all public areas where adult mosquitoes occur or find harborage. May be used to treat aggregation and harborage areas such as the perimeter of residential buildings, commercial buildings, storage buildings, crawl spaces, transport trailers, abandoned or uninhabited buildings and other areas where adult mosquitoes find harborage.

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.

To apply this product using low pressure hand sprayers or other similar equipment, for the control of mosquitoes on resting or aggregation surfaces, mix 0.126 oz. (3.73 ml) in one gallon of water and apply sufficient spray to dampen the surface - approximately 700-750 square feet of treated area. Use equipment that is capable of delivering an even distribution of the labeled rate over the treatment area. For application using backpack or truck-mounted mist-blower equipment apply **Aqua-Pursuit ULV** undiluted at a rate not to exceed 7.3 oz. per acre. If diluted apply at a rate not to exceed 0.1 lbs. permethrin a.i. per acre. Diluted or undiluted applications may be made onto foliage at the perimeter of areas such as recreational areas, parks or golf courses from which mosquitoes or flies are to be excluded. Applications may be directed into harborage areas or other resting areas where adult

mosquitoes or flies may be found.

URBAN ULV MOSQUITO CONTROL APPLICATIONS: For control of resting or flying adult mosquitoes, biting flies and biting midges in harborage areas such as but not limited to utility tunnels, sewers, storm drains and catch basins, pipe tunnels, basements, underground passages, parking decks, crawl spaces under buildings, abandoned buildings or uninhabited buildings. Apply **Aqua-Pursult ULV** diluted or undiluted using mechanical foggers, hand-held or truck-mounted ULV equipment, thermal foggers or other spray equipment suitable for this type of application. **Aqua-Pursult ULV** may be applied at rates up to but not exceeding 0.007 lbs. permethrin per acre.

AERIAL APPLICATION

Apply **Aqua-Pursult 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 **Aqua-Pursult ULV**, 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 wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce 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 **Aqua-Pursult 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. Aerial applications of **Aqua-Pursult ULV** shall only be made when recommended by public health officials and trained personnel of mosquito abatement districts and other mosquito control programs. To ensure best results applications shall be made when temperatures are greater than 50° F.

For best results, apply **Aqua-Pursult ULV** when insects are most active and meteorological conditions are conducive to keeping the spray cloud near the ground. Aerial applications using aircraft equipped with global positioning systems (GPS) may be needed to compensate for windy conditions and to ensure drift into target areas.

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 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 Disposal: Nonrefillable Containers: Metal or Plastic Container. Do not reuse or refill container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities, such as burning of plastic containers. If burned, stay out of smoke. Triple rinse as follows:

Containers 5 gallons or less: Empty the remaining contents into application equipment and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into 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. Once cleaned, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

Containers larger than 5 gallons: Empty the remaining contents into application equipment. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip 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. Once cleaned, offer for recycling or reconditioning if appropriate.

Pressure rinse as follows (all sizes): 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.

Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Return container to point of purchase for reuse with seal intact and in salable condition. Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container.

To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing process two more times.

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.

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

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- For ULV Applications at rates up to 0.007 lbs. a.i. per acre
- For Barrier Application at rates up to 0.1 lbs. a.i. per acre
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 **Piperonyl Butoxide Technical20.6%

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**Equivalent to 80% (butylcarbityl)(6-propylpiperonyl) ether and 20% related compounds. Contains 1.75 pounds of Permethrin and 1.75 pounds of Piperonyl Butoxide per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
If Swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Have person sip a glass of water if able to swallow. • Do not give anything by mouth to an unconscious person.
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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact Poison Control Center at 800-222-1222 for emergency medical treatment information.	

See Inside Booklet for Additional Precautionary Statements

Manufactured For:
 Precision Control Technology, Inc.
 111 South Calvert Street, Suite 1800
 Baltimore, Maryland 21202

EPA Registration No. 53883-274-86291
 EPA Establishment No. 53883-TX-002
 1110

Material Safety Data Sheet

Section 1 – Product Identification

Product Name: Aqua-Pursuit ULV
 Manufacturer: Precision Control Technology, Inc.
 111 South Calvert Street
 Suite 1800
 Baltimore, MD 21202
 (800) 920-1001

EPA Registration #: 53883-274-86291
 EPA Establishment #: 53883-TX-002

Section 2 – Chemical Composition

Material	CAS #	% by Weight	OSHA PEL/ACGIH TLV
Permethrin	52645-53-1	20.6%	None established
Piperonyl Butoxide	51-03-6	20.6%	None established
Inert Ingredients (Contains d-limonene)	Proprietary blend	58.8%	None established

Section 3 – Hazard Identification

Symptoms of Toxicity: Permethrin may induce neurotoxic symptoms including diarrhea, salivation, tremors, convulsions, hyperactivity and hypersensitivity to touch or sound.

Flammability: Combustible.

Reactivity: Stable under normal storage conditions.

Carcinogenicity: Not carcinogenic.

Section 4 – First Aid

Eye Contact: Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.

Inhalation: Remove person to fresh air. Call poison control center immediately. Give artificial respiration if necessary.

Ingestion: Call poison control center immediately. Do not induce vomiting unless directed to do so by physician.

Dermal Contact: Wash promptly with plenty of soap and water. Wash contaminated clothing.

Notes/Physician's Information: Contact SafetyCall® International (866) 897-8050 or National Poison Control (800) 222-1222 for emergency medical treatment information.

Section 5 – Fire and Explosion Hazards

Flash Point: 156 F
 Upper Flammability Limit: N/A

Extinguishing Media: Water fog, CO₂, foam, dry chemical
 Lower Flammability Limit: N/A

Special Procedures: Use self-contained breathing apparatus. Cool fire exposed areas and equipment.

Unusual Fire Hazards: May release irritating and toxic gases due to thermal decomposition or combustion.

Reactivity/Stability: Stable. May release HCl, oxides of chlorine, CO, hydrogen and carbon. Avoid strong oxidizers and corrosives. Hazardous polymerization will not occur.

Section 6 – Spill/Release Procedures

Absorbent:	Universal absorbent pads, vermiculite, or clay granules.
Containment:	Do not discharge into municipal wastewater or public storm drains. Eliminate runoff as much as possible.
Waste Disposal:	Dispose of waste material in municipal land-fill or through licensed TSDF. Open dumping is prohibited. Not an RCRA hazardous waste.
Reporting:	Report all major spills and uncontrolled releases to proper local, state, and federal agencies.
Emergency Contact #:	Chemtrec: 1-800-424-9300

Section 7 – Storage and Handling Instructions

Storage Conditions:	Store 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 Disposal:	<p>Do not reuse or refill container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities, such as burning of plastic containers. If burned, stay out of smoke. Triple rinse as follows:</p> <p>[Containers 5 gallons or less: Empty the remaining contents into application equipment and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into 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. Once cleaned, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities. Do not cut or weld metal containers.]</p> <p>[Containers larger than 5 gallons: Empty the remaining contents into application equipment. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip 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. Once cleaned, offer for recycling or reconditioning if appropriate.]</p> <p>[Pressure rinse as follows (all sizes): 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.]</p> <p>[Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Return container to point of purchase for reuse with seal intact and in salable condition. Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container.</p> <p>To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing process two more times. 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.]</p>

Section 8 – Protective Equipment/Engineering Controls

Eye Protection: Avoid contact
 Respiratory Protection: None likely to be needed.
 Dermal Protection: Long sleeves, pants, shoes with socks.
 Engineering Controls: Use only in adequately ventilated areas.
 Other Precautions: Wash thoroughly after handling. Remove and wash clothing before reuse.

Section 9 – Physical Data

Odor:	Slight characteristic	Melting Point:	N/A
Physical State:	Liquid	Flash Point:	156 F
Color:	Translucent pale yellow	Specific Gravity:	.95-1.05 (g/ml)
Bulk Density:	N/A	pH:	4.88
Vapor Pressure:	N/A	Water Solubility:	Emulsifies
Viscosity:	N/A	Refractive Index:	N/A

Section 10 – Toxicity

EPA Toxicity Category:	Caution	Oral LD ₅₀ :	>500 mg/kg
Skin Contact:	Slightly irritating	Dermal LD ₅₀ :	>1000 mg/kg
Eye Contact:	Slightly irritating	Inhalation LC ₅₀ :	>10 mg/kg
HMIS/NFPA Classification:	Fire - 2	Health - 1	
	Reactivity - 0	Special - none	
Other Comments:	Avoid cross contamination. Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking.		

Section 11 – Ecological Data

Aquatic: Permethrin: LC₅₀ (96h) for rainbow trout: 2.5 ug/L
 Permethrin: LC₅₀ (96h) for Bluegill: 1.8 ug/L
 Avian: LD₅₀ Bobwhite quail- >10,000 mg/kg
 Bioaccumulation: Unlikely to bioaccumulate due to acute toxicity.
 Summary: This product is extremely toxic to fish. Do not apply directly to water. Drifts and runoff from treated areas may be hazardous to aquatic organisms in treated areas.

Section 12 – Transportation

DOT: Non-bulk: Not DOT regulated.
 Bulk (>119 gal): UN1993, Combustible liquid, n.o.s. (contains d-limonene), Class 3, PG III.
 IATA: Not regulated.
 IMDG: UN3082, Environmentally hazardous substance, liquid, n.o.s. (20.6% permethrin), Class 9, PG III, marine pollutant
 Federal Motor Carrier Classification: Insecticide, Liquid, Other Than Agriculture N.O.I.B.N.

Section 13 – Regulatory

Section 302/TPQ: (emergency planning)	Contains no components listed under section 302.
Section 304/EHS RQ: (release notification)	Contains no components listed under section 304.
CERCLA RQ: (release notification)	Not regulated by CERCLA.
Section 311/Tier II: (MSDS submission)	Acute health hazard. Fire hazard.
Section 313/TRI Chemicals:	20.6% permethrin, CAS - 52645-53-1 20.6% piperonyl butoxide CAS - 51-03-6
RCRA Haz-Waste Code(s):	None
CAA TQ: (air emissions)	None

Section 14 – Other

NFPA and HMIS ratings assigned to this product are based on the hazards of its ingredient (s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

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