



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

January 23, 2026

Nandita Chowdhury
Global Regulatory Manager
Clarke
675 Sidwell Ct.
St. Charles, IL 60174

Subject: Label Amendment - Registration Review Mitigation for Permethrin
Product Name: PERMETHRIN 57% OS
EPA Registration Number: 8329-44
Case Number: 480107
Application Date: 3/22/2021

Dear Nandita Chowdhury:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Permethrin Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the product for

shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Alex McKee by phone at 202-566-1939, or via email at mckee.alex@epa.gov.

Sincerely,



Dana L. Friedman, Chief
Risk Management and Implementation Branch 1
Pesticide Re-Evaluation Division
Office of Pesticide Programs
U.S. Environmental Protection Agency

ENCLOSURE: Stamped label

RESTRICTED USE PESTICIDE

Due to Toxicity to Fish and Aquatic Organisms.

For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

PERMETHRIN 57% OS**PERMETHRIN GROUP 3A INSECTICIDE**

A Synthetic Pyrethroid For Effective Control And Repellency of Adult Nuisance and Vector Mosquitoes, Gnats, Biting and Non-Biting Midges, Blackflies, Deer Flies and Other Biting Flies in Outdoor Residential and Recreational Areas.

For outdoor use only.

Active Ingredients:

Permethrin (3-Phenoxyphenyl) methyl (+/-) cis, trans-3-(2,2 dichlorethenyl)-2,2-dimethyl-cyclopropane carboxylate.....	57.00%
Other Ingredients*	<u>43.00%</u>
TOTAL	100.00%

* Contains petroleum distillates

Cis/trans isomers ratio: min. 35% (+) cis and max. 65% (+) trans.

Contains 5 lb/gal Permethrin

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

Have product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergency information, call the International Poison Control Center at 1-800-214-7753.

IF SWALLOWED:	Immediately call a poison control center or doctor. 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.
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Note to physicians: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

A C C E P T E D

Jan 23, 2026

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 8329-44

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE):

Mixers, loaders, applicators and other handlers must wear: Long-sleeve shirt and long pants, shoes plus socks, and chemical-resistant gloves made of Barrier Laminate or Viton \geq 14 mils. Mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate must wear a chemical-resistant apron.

User Safety Requirements:

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

User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users 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.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and 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 high 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 absorbed to suspended soil particles), for several months or more after application. These include poorly draining 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 over-lying tile drainage systems that drain to surface waters. This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment areas.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of the National Pollutant Discharge Eliminations System (NPDES) permit and the permitting authority has been notified in writing

prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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.

Insecticide Resistance Management (IRM) Recommendations

For resistance management, PERMETHRIN 57% OS contains a Group 3A insecticide. Any insect population may contain individuals naturally resistant to PERMETHRIN 57% OS and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same area. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of PERMETHRIN 57% OS or other Group 3A insecticides with other labeled effective mosquito adulticides that have a different mode of action.
- Adopt an integrated pest management program for insecticide use that includes surveillance, uses historical information related to pesticide use, record keeping, and which considers biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, contact your local university specialist or Clarke representative.
- Contact your local extension specialist, technical advisor, and/or Clarke representative for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problem in your area.
- For further information or to report suspected resistance, contact your local Clarke representative by calling 1-800-323-5727.

Precautions and Restrictions

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 area during application.

Not for use in outdoor residential misting systems.

Not for use in metered release systems.

Use in handheld thermal foggers is prohibited. Not for application by stationary fogger.

Apply when wind speed is greater than 1 mph.

Do not apply when the wind speed is greater than 15 mph.

Do not allow spray treatment to drift onto cropland, poultry ranges or potable water supplies.
Do not use on crops used for food or forage.

All outdoor spray applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- Application to pervious surfaces such as soil, lawn, turf, and other vegetation;
- Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang awning, or other structure;
- Applications to vertical surfaces (such as the side of a man-made structure) directly above impervious surfaces (e.g., driveways, sidewalks, etc.), up to 2 feet above ground level;
- Applications to vertical surfaces directly above pervious surfaces, such as soil, lawn, turf, mulch or other vegetation, only if the pervious surface does not drain into ditches, storm drains, gutters, or surface waters.

Spot treatments must not exceed two square feet in size (for example, 2 ft. by 1 ft. or 4 ft. by 0.5 ft.).

For soil or foliar applications, do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish ponds.

Do not spray the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.

Do not allow the product to enter any drain during or after application.

Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.

Do not apply or irrigate to the point of run off.

Do not make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours).

Rainfall within 24 hours after application may cause unintended runoff of pesticide application.

Treat surfaces to ensure thorough coverage but avoid runoff.

To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.

Spray Drift Requirements:

Only apply this product if the wind direction favors on-target deposition. Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

Do not make applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface. Use only Medium or coarser spray nozzles according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

General Information:

PERMETHRIN 57% OS provides residual control of adult nuisance and vector mosquitoes and other listed pests on plant and other surfaces where these pests may rest (harbor) for up to 14 days in shaded areas. Secondary activity of a “barrier”-type application is through repellency.

PERMETHRIN 57% OS is approved for use as a residual barrier/harborage spray in vegetation and around structures in residential and recreational areas and other areas these insects occur. Typical harborage sites include brush, building foundations, bushes, climbing ivy, grasses, lawns, trees, turf, vegetative groundcover, windbreak vegetation and other such vegetative cover within or surrounding municipal and residential areas such as, but not limited to: athletic fields, campgrounds, collapsed structures (old building foundations, fences), junk yards, large tire piles, log piles, overgrown waste areas, parks, playgrounds, outdoor residential areas, school yards, scrap yards (including abandoned vehicles), wooded park trails, woodlands, woodlots, and woodpiles.

Application Directions

Apply product by ground application with a mist blower, power backpack, pressure sprayer, or ultra-low volume (ULV) cold aerosol generator

PERMETHRIN 57% OS must be mixed with a non-phytotoxic oil mixture prior to application. The oil mixture is obtained by combining 1 [one] part soybean oil to 2 [two] parts mineral oil. Non-phytotoxic oils must be used to avoid plant damage within treated areas.

To kill or repel mosquitoes, midges, deer flies and other biting flies, mix with enough oil mixture so as to easily apply 0.1 pounds of Permethrin per acre. The following dilution and flow rate is calculated assuming a 2 MPH walking speed and a fifty (50) foot application swath. If a different dilution ratio or walking speed is used, adjust rate accordingly so as to achieve 0.1 pounds of Permethrin per acre.

Dilution			Finished Spray (Permethrin)		Application rate at 2 MPH walking speed		
Permethrin 57% OS	Soybean Oil	Mineral Oil	% / wt	Lb. ai./gallon	Fl. oz./Acre	Fl. oz./Minute	Lb. ai./Acre
1 Part	3 Parts	6 Parts	5.7%	0.5	25	5.0	0.1

For optimum results, thoroughly spray vegetation. Do not spray to the point of runoff. For large recreational areas such as football fields, stadiums, racetracks, and public parks, spray the insecticide-oil mixture to all vegetative areas and groundcover and to surrounding harborage areas.

STORAGE & DISPOSAL

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

PESTICIDE STORAGE & SPILL PROCEDURES: Do not store at temperatures below 40 °F (4.5 °C). If this material has been exposed to temperatures below 40 °F, there may be precipitation. Check for crystallization. If evident, warm to 80 °F (26.5 °C) and thoroughly mix before using. DO NOT USE OPEN FLAME. 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: Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.

[Container Handling for non-refillable containers, capacity 5 gallons or less]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ 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. Then offer for recycling if available, 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.

[Container Handling for non-refillable containers, capacity greater than 5 gallons]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ 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 rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or

reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

[Container Handling for refillable containers]

CONTAINER HANDLING: 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. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

[IN CASE OF EMERGENCY, CALL INFO-TRAC 1-800-535-5053]

FOR MORE INFORMATION CALL 1-800-323-5727

Manufactured By:

Clarke Mosquito Control Products, Inc.
159 North Garden Ave.
Roselle, IL 60172
U.S.A.

EPA Reg. No. 8329-44

EPA Est. No.: 8329-IL-01

NOTICE: To the extent consistent with applicable law, seller makes no warranty, expressed or implied concerning the use of this product other than as indicated on the label. Buyer assumes all risk of use and/or handling of this material when use and/or handling is contrary to label instructions.