



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 25, 2016

Sharon Johnston  
Regulatory Consultant  
For CTX-Cenol  
c/o RegGuide  
509 Tower Valley Dr.  
Hillsboro, MO 63050

Subject: Amended Reregistration Label/Label Amendment – Addition of Zika claims as well as incorporating RED language.  
Product Name: Cenol 0.5% Multi-Purpose Insecticide  
EPA Registration Number: 45385-99  
Application Date: January 5, 2011; April 11, 2016  
Decision Numbers: 413552; 516249

Dear Ms. Johnston:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. The Agency, has also completed reviewing all of the information submitted with your application to support the reregistration of the above referenced product in connection with the Permethrin RED, and has concluded that your submission is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

NOTE: This product is **not** yet being reregistered under section 4(g) of FIFRA.

Please note that the record for this product currently contains the Confidential Statements of Formulation (CSFs) listed below. Any previously dated CSFs are superseded.

- Basic CSF, dated 06/23/2015
- Alternate CSF 1, dated 06/23/2015

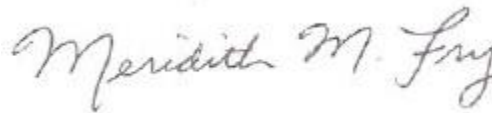
A copy of your label stamped “Accepted” is enclosed. This labeling supersedes all previously accepted labeling. Products shipped after 12 months from the date of this amendment or the next printing of the label, whichever occurs first, must bear the new revised label. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling.

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.

Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions about this letter, please contact Jennifer Gaines at 703-305-5967 or via email at [gaines.jennifer@epa.gov](mailto:gaines.jennifer@epa.gov).

Sincerely,

A handwritten signature in cursive script that reads "Meredith M. Fry".

Meridith M. Fry, Ph.D., Product Manager 4  
Invertebrate & Vertebrate Branch 1 (IVB1)  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

# Cenol 0.5% Multipurpose Insecticide

- For use by Homeowners, Pest Control Operators or Commercial Applicators
- Ready-To-Use
- A Ready-To-Use Permethrin Stable Emulsion Insecticide to Kill Insects as listed for Outdoors, in Homes and Non-food Areas of Food/feed Processing Establishments, Kennels, Commercial Buildings, Warehouses, Theaters, Office Buildings, Schools, Motels and Hotels
- Protects Travel Luggage from "pick up" of Bed Bugs, Spiders, Cockroaches and other listed Insects
- For Kill and Control of Fleas, Brown Dog Ticks and Lice on Premises and on Dogs
- For Control of Ticks which may carry Lyme Disease
- Controls Fleas and Ticks on Dogs for 14 Days
- For Control of Pests on Livestock
- Kills Mosquitoes that may transmit West Nile Virus that cause Encephalitis
- Repels Mosquitoes, Including those (*Aedes*), that may carry and transmit Zika Virus
- Repels *Aedes* Mosquitoes
- Repels Mosquitoes that may carry and transmit the Zika Virus
- Also for Treatment of Clothing, Tents, Camping Gear and: Mosquito Netting, Nets, Outside of Sleeping Bags, Backpacks and Ground Cloths.

**Active Ingredient:**

Permethrin (CAS# 52645-53-1) ..... 0.50%

**Other Ingredients:** ..... 99.50%

Total ..... 100.00%

EPA Reg. No. 45385-99

EPA Est. No.

Keep Out of Reach of Children

**CAUTION**

See side [back] panel(s) for additional precautionary statements.

**CTX-Cenol, Inc.**

P.O. Box 472

Twinsburg, OH 44087

**ACCEPTED**

May 25, 2016

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

EPA Reg. No. 45385-99

Net Contents:

## **PRECAUTIONARY STATEMENTS**

### **Environmental Hazards**

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

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 foraging in the treatment areas.

### **Physical and Chemical Hazards**

Do not use this product in or on electrical equipment due to the possibility of shock hazard. Do not allow product to freeze.

## **DIRECTIONS FOR USE**

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

**READ ENTIRE LABEL BEFORE EACH USE.**  
**FOR PET USE – USE ONLY ON DOGS**

{Note to Reviewer: Use restrictions listed below [marked with brackets] specific to use patterns not included on the label may be omitted}

### **Use Restrictions:**

- Except when applying to [fabric], [dogs], [Horses] or [livestock], do not allow adults, children or pets to enter until vapors, mists and aerosols have dispersed and the treated area has been thoroughly ventilated.
- Except when applying to [fabric], [dogs], [Horses] or [livestock], do not allow adults, children or pets to enter the treated area until sprays have dried.
- Except when applying to [fabric], [dogs], [Horses] or [livestock], 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.
- Do not breathe vapors or spray mist.
- Do not apply when food is present.
- Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms but excluding areas where foods may be prepared or held. Non-food/feed areas are areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, office, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).
- In the home, cover all food processing surfaces and utensils during treatment or thoroughly wash before use. Cover or remove exposed food.
- Do not contaminate food and feed stuffs. Remove pets, birds and cover fish aquaria before space spraying or surface applications.
- Not for broadcast use on indoor residential surfaces.
- Allow all treated articles to dry thoroughly before use.
- All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses: 1) Treatment to soil or vegetation around structures; 2) Applications to lawns, turf and other vegetation; 3) Applications to building foundations, up to a maximum height of 3 feet. Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors and eaves) are limited to spot and crack-and-crevice applications only.
- Do not water the treated area to the point of run-off.
- Do not make applications during rain.

- Application is prohibited directly into sewers or drains or to any area like a gutter where drainage to sewers, storm drains, water bodies or aquatic habitat can occur. Do not allow product to enter any drain during or after application.
- Do not apply to classrooms while in use.
- Do not use in aircraft cabins.
- Not for use in outdoor residential misting systems.
- [Not for use on plants being grown for sale or other commercial use or for commercial seed production or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks or on golf courses or lawns and grounds.]
- NOT FOR USE ON HUMANS

## SHAKE WELL BEFORE USING

Ready-to-Use and apply for most uses with the attached sprayer.

For travelers who want to protect their luggage from “picking up” of bed bugs, spiders, cockroaches and other listed insects, spray the outer and inner surfaces of luggage with a light spray mist of this product.

## INDOOR APPLICATION

For maximum effectiveness, a combination of spot surface treatment and fogging is recommended.

### SURFACE SPRAYING

**TO KILL and CONTROL COCKROACHES, WATERBUGS, PALMETTO BUGS, SCORPIONS, MILLIPEDES, CENTIPEDES, SOWBUGS, PILLBUGS, ANTS, SILVERFISH, FIRE BRATS, SPIDERS, CRICKETS, CLOVER MITES, CHEESE MITES, GRANARY WEEVILS, RICE WEEVILS, CONFUSED FLOUR BEETLES, RUST RED FLOUR BEETLES, DRUGSOTRE BEETLES, MEAL WORMS, GRAIN MITES AND CADELLES:** Apply at a rate of 1 gallon of product per 1000 sq. ft. [1 oz of product per 8 sq. ft.]. Direct the spray into hiding places, cracks and crevices and behind shelves and drawers. For silverfish, spray bookcases. For ants, spray trails, nests and points of entry.

**TO CONTROL CARPET BEETLES:** Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, crevices and infested areas of shelving.

**TO CONTROL BED BUGS:** Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floor. Repeat treatment as needed.

**TO CONTROL FLEAS (ADULT AND LARVAE) AND TICKS, INCLUDING TICKS WHICH MAY CARRY LYME DISEASE (ADULTS AND LARVAE):** Apply as a spot, crack & crevice treatment to infested areas of pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames and floor and floor covering. Fresh bedding should be placed in animal quarters following treatment.

**TO CONTROL CLOTHES MOTHS:** Remove any infested articles from storage, brush thoroughly and air for several hours in sun light, if possible. Apply spray liberally to empty chests, closets, bureaus and other storages directing the spray into cracks, joints and crevices. After airing, infested articles may be treated lightly, keeping nozzle at least three feet from fabric to avoid staining.

**TO KILL LICE AND LOUSE EGGS:** Spray in an inconspicuous area to test for possible staining or discoloration. Inspect again after drying. Spray from a distance of 8 to 10 inches. Treat only those garments and parts of bedding, including mattresses and furniture that cannot be either laundered or dry-cleaned.

### SPACE SPRAYING

Close all doors and windows and shut off ventilating systems. Apply with a good machine adjusted to deliver a fine mist or fog. For rapid control of House Flies, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Black Flies, Angoumois Grain Moths, Mediterranean Flour Moths, Indian Meal Moths and Tobacco Moths: Direct spray at an upward angle, distributing it uniformly throughout the entire area at a rate of 1 ounce per 1,000 cubic feet of space. Keep area closed for 2 hours.

**INDOOR FOGGING:** To kill exposed or accessible stages of the above named insects, use a rate of 1 quart to 1 gallon for 10,000 to 40,000 cubic feet of space. Contact insects directly when possible. Keep area closed for 2 hours.

## **PEST CONTROL ON LIVESTOCK**

To protect cattle (beef and dairy), goats, sheep, hogs and horses from: Horn Flies, Face Flies, House Flies, Mosquitoes and Gnats: Apply a light mist sufficient to wet the surface of the hair. For face flies, spray face and head, but do not spray into eyes.

TO KILL and CONTROL STABLE FLIES, HORSE FLIES AND DEER FLIES: Apply at a rate of 2 ounces per adult animal, sufficient to wet the hair thoroughly. Repeat treatment daily or at intervals necessary to give continued protection.

TO CONTROL BLOOD SUCKING LICE: Apply to the infested areas of the animal, using a stiff brush to get the spray to the base of the hair. Repeat every 3 weeks if required.

TO CONTROL POULTRY LICE: Spray roosts, walls and nests or cages thoroughly then spray over the birds with a fine mist.

TO CONTROL BEDBUGS AND MITES IN POULTRY HOUSES: Spray crevices of roost poles, cracks in walls and cracks in nests where the bedbugs and mites hide.

## **FOR USE ON DOGS**

To kill and control Fleas, Ticks and Lice: Start spraying at the tail, moving the dispenser rapidly and making sure that the animal's entire body is covered, including the legs and underbody. While spraying, fluff the hair so that the spray will penetrate to the skin. Make sure spray wets thoroughly, but do not saturate animal. Do not spray into eyes or face. Avoid contact with genitalia. Use protective gloves or mitts when applying product. Repeat application every two weeks, if necessary. **DO NOT USE ON CATS OR KITTENS.**

Do not apply to dogs less than 12 weeks old. Consult a veterinarian before applying this product on medicated, debilitated, aged, pregnant or nursing animals. Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately.

## **OUTDOOR APPLICATION**

TO CONTROL TICKS, INCLUDING TICKS WHICH MAY CARRY LYME DISEASE (PERIMETER TREATMENT): Use this product as a residual treatment to control Ticks, including the Deer Tick (*Ixodes dammini*), Lone Star Tick, (*Amblyomma americanum*), Brown Dog Tick (*Rhipicaphalus sanguineus*), American Dog Tick (*Dermacentor variabilis*) and Western Black-legged Tick (*Ixodes pacificus*). For each area listed below, apply until surface is wet (1/2 to 1 gallon for 750-1,000 sq. ft.)

Treat around windows and doors, porches, screens, eaves, patios, garages, under stairways and in crawl spaces where these pests may enter. Treat a band of vegetation and leaf litter 6 to 10 feet wide around the outside of buildings to help control ticks occurring there. To help control ticks in outdoor activity areas, treat a band of vegetation and leaf litter 6-10 feet wide and adjacent to activity areas, especially where dense vegetation occurs.

FOR CONTROL OF FLOWER GARDEN INSECTS: For use on roses, dahlias, asters and other ornamentals to kill Japanese Beetles hit by spray as well as White Flies, Aphids, Exposed Thrips, Spiders, Red Mites and Leafminers. May be used on plants as a multipurpose spray in small gardens and for spot treatments of incipient insect infestations to prevent spreading in large garden areas. May also be used on other plants such as African violets, azaleas, begonias, camellias, carnations, chrysanthemums, delphiniums, dogwoods, English ivy, euonymus, fuchsia, geraniums, crassula, grape vines, kentia palms, laurels, marigolds, rhododendrons, rubber plants, snapdragons, stocks, wandering Jew and zinnias. **EFFECTIVE WHEN USED AS DIRECTED AGAINST WHITE FLIES, APHIDS, SPIDER AND RED MITES, EXPOSED THRIPS, LACE BUGS, JAPANESE BEETLES, PAVEMENT ANTS, CLOVER MITES AND ARMYWORMS.** When spraying plants, do not operate closer than 18 inches. Use a sweeping motion. Be cautious about wetting tender foliage, young plants and new growth. Do not spray plants when temperatures exceed 90°F. Contact insects directly whenever possible. Repeat treatment as infestations occur.

**CAMPING EQUIPMENT: MOSQUITO NETTING, NETS, TENTS, outsides of SLEEPING BAGS, BACKPACKS AND GROUND CLOTHS**

For residual protection against ticks, chiggers and mosquitoes, treat camping equipment as follows:

**SHAKE WELL BEFORE USING.** Do not apply this product to clothing while it is being worn. Under NO circumstances should bare skin or clothing on the body be treated. Do not spray directly on or otherwise allow it to come in contact with skin, face or eyes. This product is to be used as a clothing and gear treatment only. In case of accidental spraying of skin, face or eyes, see FIRST AID below. Make all applications outdoors.

For six-week protection against ticks, chiggers and mosquitoes, select an outdoor area protected from the wind. Spray outer surfaces of clothing only (while not being worn) with a slow sweeping motion to lightly moisten the surface of the fabric, holding arm at a distance of 6 to 8 inches. (A complete outfit consists of shirt, trousers and socks.) Treat outside of each item of clothing for a minimum of 30 seconds on each side and allow 2 hours (4 hours under humid conditions) to dry prior to being worn. Pay particular attention to socks, trouser cuffs and shirt cuffs. Treatment should moisten the surface of the fabric enough to cause a slight color change. Use approximately 2 to 3 ounces of this container to treat the outsides of one complete set of clothing. Use remainder on gear. Follow normal laundering procedures weekly. Reapply after six weeks and sixth laundering.

In heavily infested areas, protection from ticks and chiggers will be improved by either wearing the cuffs inside footwear or taping pant cuffs around legs. Protection from mosquitoes can be further enhanced by applying an EPA approved repellent, as directed, to face, hands and other exposed areas of the body.

Do not treat inside of sleeping bag. Spray exterior surfaces of tent only. Select a well-ventilated outdoor area protected from wind and lay out gear to be treated. Hold container upright about 6 to 8 inches from surface of the article and spray with a slow sweeping motion to lightly moisten the surface of the fabric. Continue spraying over entire article until the outer surface of the article is moist enough to cause a light color change (darkening). Turn the article over and treat the other side. Hang treated gear and allow to dry for at least 2 hours (4 hours under humid conditions) before using. Do not retreat gear more than once every six weeks.

#### **Storage and Disposal**

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

**Pesticide Storage:** Store this product in its original container in a dry, cool, secured area out of reach of children and pets.

**Product Disposal:** As a responsible environmental practice, where possible, it is recommended that all of the contents of the container be used carefully following label directions and precautions.

**Container Handling:** If Empty: Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling, if available. If Partly Filled: Call your local waste agency or 1-800-253-2687 for disposal instructions. Never place unused product down any indoor or outdoor drain.

**SPILL:** In case of spill, absorb liquid with absorbent material such as soil or clay, etc. sweep up and dispose of material according to PRODUCT DISPOSAL above.

For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378 or the poison control center at 1-800-222-1222.

**NOTICE:** To the extent consistent with applicable law, buyer assumes all risks of use, storage or handling of this product not in strict accordance with directions given herewith.

Product Batch Code No. \_\_\_\_\_