

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

JUN 15 2004

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

H. R. McLane, Ph.D.  
H.R. McLane, Inc.  
7210 Red Road, Suite 206  
Miami, Florida 33143-5321

**Subject:** Label Amendment to Update First Aid Statements (PR Notice 2001-1) and  
Storage and Disposal Instructions (PR Notice 2001-6)

CENOL, 0.25% Multipurpose Insecticide  
EPA Reg. No. 45385-98  
Your Submission Dated December 30, 2003

Dear Dr. McLane:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed for your records.

1. Since the product is in Toxicity Category IV for all routes of exposure, the Signal Word, Hazards to Humans and Domestic Animals, and First Aid statements are not required. You may delete these statements. Note that the Child Hazard Warning is still required.
2. Revise the 7<sup>th</sup> and 8<sup>th</sup> bullets on the front and rear panels to read:
  - Provides 60 day (two months) control of fleas
  - Provides 60 day (two months) control of stored product pests.

3. Revise the last bullet on the front panel and 3<sup>rd</sup> bullet on the back panel to read: *"Dilute for use on vegetables, fruit and nut trees, ornamental trees, and pests on the outdoor surface of buildings"*.
4. Add *"...and other aquatic organisms"* to the first sentence under Environmental Hazards.
5. Move the sentence *"Do not contaminate water, food, or feed by storage and disposal"* directly under the subheading "Storage and Disposal".
6. Delete: *"Repeat treatment as needed"* throughout or identify a specific repeat interval based upon efficacy data of the product.
7. The precaution *"Affix trigger, pump or other type sprayer to container for application. Do not transfer to another container"* is for indoor residential application uses only. You may delete these statements for livestock and outdoor application uses or replace with *"Affix trigger, pump or other type spray head to container or use clean sprayer for application"*.
8. Delete the term *"Cole crops"*.
9. Under Disclaimer of Warranties revise the statement beginning with: *"CTX Cenol, Inc. disclaims any liability whatsoever..."* to read: *"To the extent permitted by law CTX Cenol, Inc. disclaims any liability whatsoever..."*. As currently written the statement negates and/or detracts from labeling requirements as set forth by the Agency in 40 CFR Part 156, and is, therefore, considered misbranding.

If you have any questions regarding this action, please contact Olga Odiott of my team at (703) 308-9369.

Sincerely,



George T. LaRocca  
Product Manager (13)  
Insecticide Branch  
Registration Division (7505C)

Enclosure

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Not for use on plants being grown for sale or other commercial use, or for commercial seed production or for research purposes. Food utensils such as teaspoons and measuring cups should not be used for food after using with insecticides.

**SHAKE WELL BEFORE USING**

**INDOOR APPLICATION FOR HOUSEHOLD PESTS:** For spot application only. Do not use as a space spray indoors. Ready to use. Affix trigger, pump or other type sprayer to container for application. Do not transfer to another container.

**SURFACE SPRAYING.**  
FOR 60 DAY (TWO MONTHS) CONTROL OF COCK ROACHES, WATER BUGS, PALMETTO BUGS, SCORPIONS,

MILLIPEDES, CENTIPEDES, SOW-BUGS, PILLBUGS, ANTS, SILVER-FIREBRATS, SPIDERS, TICKETS, CLOVER MITES, CHEESE MITES, GRANARY WEEVILS, RICE WEEVILS, CONFUSED FLOUR BEETLES, RUST RED FLOUR BEETLES, DRUGSTORE BEETLES, MEAL WORMS, GRAIN MITES AND CADELLES: Direct the spray into hiding places, cracks and crevices, and behind shelves and drawers. For Silverfish, spray bookcases. For Ants, spray ant 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. Repeat treatment as needed.

**CONTROL BEDBUGS:**  
Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floors. Repeat treatment as needed. Allow all surfaces to thoroughly dry before remaking bed.

**TO CONTROL FLEAS: (ADULTS and LARVAE) and TICKS: (ADULTS and LARVAE):**  
Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices along and behind baseboards, moldings, window and door frames, and entire areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. Repeat treatment as needed. Allow to dry thoroughly before allowing pets to contact treated areas.

**CHEMotox™**

**CENOL 0.25% MULTI PURPOSE INSECTICIDE**

• FOR DOMESTIC USE INDOORS and OUTDOORS

- FOR LIVESTOCK AND PREMISE USE..... **READY-TO-USE**
- FOR CONTROL OF HOUSEHOLD PESTS.
- FOR CONTROL OF FLEAS & BROWN DOG TICKS AND LICE ON PREMISES AND ON DOGS.
- CONTROLS FLEAS AND TICKS ON DOGS FOR 14 DAYS
- FOR CONTROL OF PESTS ON LIVESTOCK
- With COUNTRY FRESH FRAGRANCE
- PROVIDES 60 DAY (TWO MONTHS)
- CONTROL OF FLEAS PROVIDES 60 DAY (TWO MONTHS).
- CONTROL OF STORED PRODUCT PESTS
- **DILUTE FOR USE ON VEGETABLES and FRUIT AND NUT TREES.**

**KEEP OUT OF REACH OF CHILDREN CAUTION**  
STOP: Read Label Before Use  
See side panels for additional Precautionary Statements.

ACTIVE INGREDIENT:  
Permethrin CAS[52645-53-1] - - - - 0.25%  
OTHER INGREDIENTS: - - - - 99.75%  
Total 100.00%

EPA REG. NO. 45385-98 EPA EST. NO. 45385--OH-01

Net Contents: 1 Gallon / 3.785 Liters

READ ENTIRE LABEL BEFORE EACH USE

PET USE APPLIES TO USE ONLY ON DOGS

Order Code 0-312

**PRECAUTIONARY STATEMENTS**  
**Hazards To Humans & Domestic Animals**  
CAUTION: Wash thoroughly after handling and before smoking or eating. Avoid contamination of feed and foodstuffs. Remove pets and birds and cover fish aquaria before surface applications. Do not use on humans. Do not allow children or pets to contact treated areas until surfaces are dry.

**Environmental Hazards**  
This product is extremely toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters.

**STORAGE AND DISPOSAL**  
**STORAGE:** Store this product in its original container in a dry, cool, secured area out of reach of children. Do not contaminate water, foodstuffs, feed, or seed by storage or disposal.  
**PESTICIDE 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. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.  
**CONTAINER DISPOSAL** Containers larger than 1 gallon- **Metal:** -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:** - 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.  
**IF EMPTY:** Do not reuse this container. Place in trash or offer for recycling if available.  
**IF PARTLY FILLED:** Call your local waste agency or 1-800 CLEANUP 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. Place absorbed spill in a labeled container and dispose of according to PESTICIDE DISPOSAL directions above. (12-30-03)

**FIRST AID**

**IF SWALLOWED** - Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. 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 to 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing. 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 to 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 mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.

Have this product container or label with you when calling a poison control center, or doctor, or when going for treatment. You may also call 1-800-858-7378 for emergency medical treatment advice.

**INDOOR DIRECTIONS FOR USE**

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

**LIVESTOCK PESTS**  
**Ready To Use.** Affix trigger, pump or other type sprayer to container for application. Do not transfer to another container.

**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 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 BLOODSUCKING 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. This should be followed by spraying 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.

**ON DOGS: TO CONTROL FLEAS, TICKS, AND LICE:** Do not use on dogs under twelve (12) weeks old. Consult a veterinarian before using 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. **Ready To Use.** Affix trigger, pump or other type sprayer to container for application. Do not transfer to another container. Start spraying at the tail, moving the dispenser rapidly and making sure that the animal's entire body is covered, including the legs and under body. While spraying, fluff the hair so that the spray will penetrate to the skin. Make sure the spray wets thoroughly, but do not saturate animal. Avoid contact with genitalia. Repeat application every two weeks if necessary.

**DO NOT USE ON CATS OR KITTENS.**



**OUTDOOR APPLICATION**  
**TO HELP CONTROL TICKS IN OUTDOOR**  
**ACTIVITY AREAS:** Ready To Use. Affix trigger, pump, or other type sprayer to container for application. Do not transfer to another container. Treat a band of vegetation and leaf litter 6-10 feet wide and adjacent to activity areas, especially where dense vegetation occurs.

**PESTS ON THE OUTDOOR SURFACE OF BUILDINGS:** To temporarily control House Flies, Mosquitoes, Cluster Flies, Gnats, and Flying Moths. For outdoor use only as an aid in reducing annoyance from these insects.

**DILUTE BEFORE USING.** Use a clean sprayer. Carefully measure and mix 1 fluid ounce of Cenol 0.25% Multipurpose Insecticide and 12 fluid ounces of water; (equal to 11 fluid ounces in 1 gallon of water). Using dilute mixture, spray pests on outside surfaces of screens, doors, window frames or wherever these insects may enter the room. Also treat surfaces around light fixtures on porches, in garages, and other places where these insects alight or congregate. Repeat as necessary. Flush sprayer with clean water after each use.

**ORNAMENTAL FLOWER GARDENS** Ready To Use. Affix trigger, pump or other type sprayer to container for application. Do not transfer to another container. For use on roses, dahlias, asters and other ornamentals to kill Japanese Beetles, hit by spray as well as Whiteflies, 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 into large garden areas.

May also be used on other plants such as African violets, asters, azaleas, begonias, camellias, carnations, chrysanthemums, dahlias, delphiniums, dogwoods, English ivy, euonymus, fuschia, geraniums, crassula, grape vines, Kentia palms, laurels, marigolds, rhododendrons, roses, rubber plants, snapdragons, stocks, wandering Jews and zinnias. Effective when used as directed against Whiteflies, Aphids, Spiders 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 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.

#### ORNAMENTAL TREES AROUND THE HOME

Dilute before using. Use a clean sprayer. Carefully measure and mix 1 fluid ounce of Cenol 0.25% Multipurpose Insecticide and 12 fluid ounces of water; (equal to 11 fluid ounces in 1 gallon of water). Using dilute mixture, use sufficient spray to obtain full coverage of all foliage. Avoid heavy wetting. Use to control: Pine Moths, Pine Needle Miners, Pine Beetles, and Needle Scales on pine; Budworms on conifers; Oakworms on oak, Fall Webworms on cherry, elm and honeysuckle; Aphids on tulip poplar; Citrus blackflies on non-bearing citrus; Tussock Moths on Douglas and grand Firs; Elm Leaf Beetles and Elm Spanworms on elms. Flush sprayer with clean water after each use.

#### FOR HOME VEGETABLE GARDENS

Dilute before using. Use a clean sprayer. Carefully measure and mix 1 fluid ounce of Cenol 0.25% Multipurpose Insecticide and 12 fluid ounces of water; (equal to 11 fluid ounces in 1 gallon of water). Spray upper and lower leaf surfaces as directed. Use sufficient spray to obtain full coverage of all foliage, but do not spray to the point of runoff. Apply no more than 13 ounces of dilute mixture per 100 linear feet of row; (13 ounces of diluted mixture per 100 square feet.) Flush sprayer with clean water after each use.

#### HOME OWNER GROWN FRUIT AND NUT TREES

Dilute before using. Use a clean sprayer. Carefully measure and mix 1 fluid ounce in 12 oz.'s of water; (equal to 11 fluid ounces in 1 gallon of water). Apply dilute mixture to trees until foliage is dripping wet. Make sure to spray the undersides of leaves and into dense foliage. Flush sprayer with clean water after each use. 12-30-03.

VEGETABLE	TARGET PESTS	REMARKS
Asparagus (pre-harvest)	Cutworms, Asparagus beetle	Sprays plants as needed to ensure uniform coverage. Do not make more than 4 applications. Can be applied up to 3 days prior to harvest
Asparagus (post-harvest)	Larval stages of asparagus beetle; tarnished plant bugs, lygus bugs and adult Japanese beetles.	Treat fern or bush growth after spear harvest when insects are present.
Celery, see LEAFY VEGETABLES COLE CROPS, Broccoli, Brussels Sprouts, Cabbage, Cauliflower.	Beet armyworm; diamond back moth; imported cabbageworm; cabbage aphid, cabbage looper.	Apply every 5 days or as needed. Can be applied up to one day prior to harvest. Do not make more than 10 applications on cabbage and not more than 8 applications on Broccoli, Brussels Sprouts, & Cauliflower per season.
Corn - see Sweet Corn. below CUCURBITS: Balsam pear, (bitter melon), Chinese waxgourd (Chinese preserving melon), citrus melon, cucumber, Gherkin, Edible gourds. Melons including hybrids such as cantaloupe, casaba, Crenshaw, honeydew, honey balls, mango melon, muskmelon, and Persian melon, pumpkin, summer & winter squash, watermelon. Eggplant	Aphids, cabbage loopers, cucumber beetles (adults), cutworms, leafhoppers, Leafminers, melon worms, pickleworms, plant bugs, and squash bugs.	Spray plants as needed to ensure uniform coverage. Do not make more than 8 applications per crop. Can be applied up to the day of harvest.
Horseradish	Imported crucifer weevils	Spray as needed. Do not make more than 3 foliar applications. Can be applied up to 22 days prior to harvest.
Leafy Vegetables Amaranth, arugula, celery, lettuce, chervil, corn salad, chrysanthemum, (edible- leaved and garland) cress (garden and upland), dandelion, dock, endive, fennel, lettuce (head & leaf) orach, parsley, purslane (garden and winter), rhubarb, Spinach, Swiss chard, Melons - See Cucurbits	Alfalfa loopers, aphids, beet armyworms, cabbage looper, corn earworms, cutworms, European corn borer, fall armyworms, green cloverworm, southern armyworms, tobacco budworms, vegetable leafminers.	Spray every 5 to 10 days as needed. Do not make more than 7 applications per crop. Can be applied up to 1 day prior to harvest.
Potatoes	Beet armyworms, Colorado Potato beetles, potato beetles, potato leafhoppers, potato aphids, Potato tuberworms, cabbage loopers, cutworms, European corn borers, potato psyllids, tarnished plant bugs.	Spray plants as needed. Do not make more than 12 applications per season. Can be applied up to 7 prior to harvest.
Peppers	Vegetable Leafminers, Cabbage loopers, Flea Beetles, Corn earworms, southern armyworms, pepper weevils, European Corn Borers.	Spray plants as needed. Do not make more than 8 applications per season. Can be applied up to 3 days prior to harvest.
Sweet Corn	Corn earworms, European Corn Borer, Fall armyworms, Southern Armyworms.	Spray plants every 5 days and when needed. Do not make more than 6 applications per season. Can be applied up to 1 day prior to harvest.
Tomatoes: Do not spray on cherry tomatoes and varieties yielding tomatoes less than one inch in diameter.	Beet and southern armyworms, Tomato pinworms, tomato fruitworms, hornworms, granulate cutworms, Colorado Potato beetles, cabbage loopers.	Spray plants when needed for uniform coverage. Do not make more than 6 applications per season. Can be applied up to date of harvest.
<b>TREES Fruit or Nut</b>		
Almonds	Navel orange worms, peach twig borers,	Apply when insects appear. Do not make more than 2 applications during the period when the outer hull of the almond has started to open. Do not make more than 5 applications per season. Can be applied up to 7 days prior to harvest.
Apples	plum curculio, red banded leaf rollers, rosyapple aphids, spotted tentiform leaf miners, tarnished plant bugs, white apple leafhoppers, oblique banded leafrollers, green fruitworms, codling moth.	Apply when insects appear. Repeat as required to maintain control. Do not make more than 3 applications per season. Do not apply after petal fall.
Peaches	Lesser peach tree borers, peach twig borers, plum curculios, tarnished plant bugs, green fruitworms, Oriental fruit worms.	Apply when insects appear. Do not apply within 7 days of harvest. Do not make more than 8 applications per season.
Pears	pear psyllid, green fruitworms, and codling moth.	Apply when needed Do not apply more than 3 applications per season. Can be applied up to 14 days prior to harvest.



**CHEMotox™**

**CENOL 0.25% MULTIPURPOSE INSECTICIDE**

**CHEM•tox™****CENOL 0.25%****MULTI PURPOSE INSECTICIDE**

5/5

**• FOR DOMESTIC USE INDOORS and OUTDOORS**

- FOR LIVESTOCK AND PREMISE USE R-EADY-TO-USE
- FOR CONTROL OF HOUSEHOLD PESTS.
- DILUTE FOR USE ON VEGETABLES AND FRUIT AND NUT TREES. • FOR CONTROL OF FLEAS & BROWN DOG TICKS AND LICE ON PREMISES AND ON DOGS.
- CONTROLS FLEAS AND TICKS ON DOGS FOR 14 DAYS
- FOR CONTROL OF PESTS ON LIVESTOCK
- With COUNTRY FRESH FRAGRANCE
- PROVIDES 60-DAY (TWO MONTHS)
- CONTROL OF FLEAS PROVIDES 60-DAY (TWO MONTHS).
- CONTROL OF STORED PRODUCT PESTS

**EPA REG. NO. 45385-87****EPA EST. NO. 56--OH-01**

By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of the manner of use and other factors beyond CTX/ Cenol, Inc. control, it is impossible for CTX Cenol, Inc. to eliminate all risks associated with the use of this product. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, OR-OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL.

No agent of CTX Cenol, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. CTX Cenol, Inc. disclaims any liability whatsoever for incidental or consequential damages, including, but not limited to, liability arising out of breach of contract, express or implied warranty (including warranties of merchantability and fitness for a particular purpose), tort, negligence, strict liability or otherwise.

**LIMITATIONS OF LIABILITY:** THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT CTX CENOL, Inc. ELECTION, THE REPLACEMENT OF PRODUCT.

In case of Medical emergencies or health and safety inquiries or in case of fire, leaking or damaged containers, information may be obtained by calling 1-800-472-0660.

**Net Contents: : 1 Gallon / 3.785 Liters**

**CENOL**  
INCORPORATED  
P.O. Box 472  
Twinsburg, OH 44087

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
JUN 15 2004  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
45385-87