

PM13 3125-372 1049
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY - 7 1993

300/5437831
17/12

Mr. John Thornton
Miles, Inc.
P.O. Box 4913
8400 Hawthorn Road
Kansas City, MO 64120-0013

Dear Mr. Thornton:

Subject: Labeling Amendments
Tempo 2
EPA Registration No. 3125-372
Tempo 20 WP in Packets
EPA Registration No. 3125-377
Your Submission Dated December 15, 1992

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

- Deleting "suppression of adults" from flea recommendations is unacceptable. Does data demonstrating the subject products efficacy against fleas include all life stages? Why was the flea claim originally registered with "suppression of adults?" Please explain.

Submit four copies of your final printed labeling before you release the product for shipment.

Stamped copies of the labeling are enclosed for your records.

Sincerely,

George T. LaRocca
Product Manager 13
Insecticide-Rodenticide Branch
Registration Division (H7505C)

CONCURRENCES							
SYMBOL	enclosures						
SURNAME	Helbert						
DATE	5-7-93						

TEMPO 2 Insecticide

372-7688.YLD

U. S. LABEL

Base Pre-Reg (7688)

2079

Reason to Issue: To remove "suppression of adults" for flea recommendation under Outdoor/Perimeter Pests list; modify "stored product pest control; and "livestock housing ... etc." section; to add pests to "Pests Controlled by TEMPO" list.

Date of Draft: 11/4/92(Pre-Reg)(S)

TEMPO 2

Insecticide

FOR PEST CONTROL OPERATORS AND COMMERCIAL USE ONLY

FOR BROAD-SPECTRUM CONTROL OF CRAWLING, FLYING, AND WOOD DESTROYING INSECT PESTS FOR INDOOR AND OUTDOOR SURFACES.

ACTIVE INGREDIENT:

Cyfluthrin, cyano(4-fluoro-3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate	24.3%
INERT INGREDIENTS*:	75.7%
	100.0%

(*This product contains xylene-range, aromatic solvents.)
Contains 2 lbs cyfluthrin per gallon.

EPA Est. No. 11556-KS-1

EPA Reg. No. 3125-372

Net Contents: 240 Milliliters

STOP - Read the Label Before Use

KEEP OUT OF THE REACH OF CHILDREN

WARNING

(See Rear Panel for Statements of Practical Treatment and Other Precautionary Statements)

AVISO

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

MILES



ACCEPTED
with COMMENTS
in EPA Letter Dated

MAY - 7 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

3125-372

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

May cause eye injury. Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or spray mist. Wear safety glasses, goggles, or face shield when handling the undiluted material and wear a respirator when making general surface overhead treatment.

Do not contaminate feed or food. Keep out of reach of children.

Wash thoroughly with soap and warm water after handling. Remove contaminated clothing and wash before reuse.

STATEMENTS OF PRACTICAL TREATMENT

If in eyes: Hold eyelids open and flush with plenty of water. Get medical attention. **If swallowed:** Call a physician or Poison Control Center. Do not induce vomiting. Vomiting may cause an aspiration hazard. **If on skin:** Wash thoroughly with soap and water. Get medical attention if irritation occurs.

NOTE TO PHYSICIAN: Treat the patient symptomatically taking into consideration that this formulation contains 34% aromatic petroleum distillates.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Remove from premises or tightly cover fish tanks and disconnect aerators when applying indoors where such containers are present. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift 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. Apply this product only as specified on this label.

This pesticide is highly toxic to bees exposed to direct treatment or residues on crops or weeds. Do not apply TEMPO 2 insecticide or allow it to drift onto crops or weeds on which bees are actively foraging. Additional information may be obtained by consulting your Cooperative Extension Service.

DIRECTIONS FOR USE

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

IMPORTANT: Read these entire Directions for Use and Conditions of Sale before using TEMPO 2 insecticide.

CONDITIONS OF SALE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE APPROPRIATE FOR THE CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED UNDER DIFFERENT ENVIRONMENTAL CONDITIONS BOTH INDOORS AND OUTDOORS SIMILAR TO THOSE THAT ARE ORDINARY AND CUSTOMARY WHERE THE PRODUCT IS TO BE USED. INSUFFICIENT CONTROL OF PESTS OR PLANT INJURY MAY RESULT FROM THE

OCCURRENCE OF EXTRAORDINARY OR UNUSUAL CONDITIONS, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO ANIMALS, MAN, AND DAMAGE TO THE ENVIRONMENT. MILES OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL ENVIRONMENTAL CONDITIONS, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

Do not formulate this product into other end-use products.

4049

GENERAL INFORMATION

TEMPO 2 insecticide is a liquid formulation containing 2 lbs active ingredient per gallon, which will provide effective knockdown and residual control of the pests listed in this label.

TEMPO 2 is intended for use as a general surface, spot, or crack and crevice application in and around buildings and structures and their immediate surroundings and on various modes of transport. Permitted areas of use include, but are not limited to, apartment buildings, bakeries, bottling facilities, breweries, cafeterias, candy plants, cereal processing and manufacturing plants, correctional facilities, dairies and dairy product processing plants, frozen food plants, grain mills, granaries, greenhouses, hospitals, hotels, houses, industrial buildings, kitchens, laboratories, livestock housing structures, pet kennels, manufacturing establishments, mausoleums, poultry houses, meat, poultry and egg processing and packing plants, meat and produce canneries, nursing homes, pickle factories, restaurants, schools, spice plants, stores, warehouses, wineries and similar structures as well as aircraft, buses, trucks, trailers, rail cars, and marine vessels.

Hospital and/or nursing home patients must be removed from their rooms while treatment is being applied and must not be allowed to return until all treated surfaces have dried. School classrooms must be treated only when students are not present, and all treated surfaces must be dry before the students are allowed to return.

TEMPO 2 is intended to be mixed with water and applied with hand pressurized or power operated sprayers. Spray pressure should not exceed 50 PSI at the nozzle tip when used indoors. Add the appropriate amount of product when filling sprayer tank with water, shake or agitate as necessary to mix. Diluted spray mixture can be stored overnight and applied the following day; however, mixture should be agitated prior to application to prevent uneven distribution of product. Before leaving spray mixture

unagitated for an extended period of time, release tank pressure and elevate nozzle and hose above tank outlet, activate trigger and drain all dilution from hose back into spray tank. Re-tighten spray tank lid and do not re-pressurize until starting spray again.

TEMPO 2 will not stain or cause damage to any painted or varnished household surface, plastic, fabric or other surface where water applied alone causes no damage.

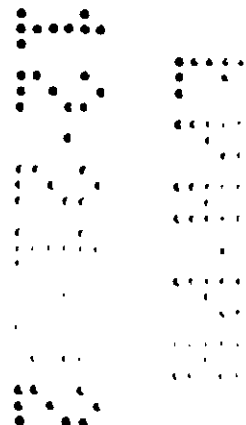
TANK MIXING: The user, at his discretion, can tank mix pesticides currently registered for similar use patterns, unless the product labels specifically prohibit such use. See Extended Cockroach Control with Insect Growth Regulators, page 5. It is always recommended that a small jar compatibility test using proper proportions of chemicals and water be run to check for physical compatibility prior to tank mixing.

GENERAL SURFACE APPLICATION: Use 8 milliliters of TEMPO 2 per 1000 sq ft (see Note 1) in sufficient water to adequately cover the area being treated, but which will not allow dripping or run-off to occur (see Note 2). Use a low pressure system with a fan type nozzle to uniformly apply the dilution. Applications can be made to walls, floors, ceilings, in and around cupboards, between, behind and beneath equipment, appliances, around floor drains, window and door frames, and on the underside of shelves, drawers and in similar areas. Applications may be made to floor surfaces along walls and around air ducts, however, do not treat entire area of floor or floor coverings. In the home, all food processing surfaces and utensils should be covered or thoroughly washed following treatment. Cover exposed food or remove from area being treated. Re-application can be made at 10-day intervals, if necessary. Do not apply where electrical short circuits could occur. Use a dust or dry bait in these areas. It is recommended to wear safety glasses, goggles or face shield and a respirator when making a general surface treatment to overhead areas.

Note 1: Under conditions of severe pest infestation or when quicker knock-down and/or longer residual control is needed, use 16 milliliters of TEMPO 2 per 1000 sq ft.

Note 2: Volume of Water Sprays Applied To A Vertical Surface to Attain Appropriate Coverage

Type of Surface	Qts/ 1000 Sq Ft	Gallons/ 1000 Sq Ft
Ceramic tile (glazed)	0.75	0.2
Stainless steel	0.75	0.2
Latex painted plywood (semigloss)	4.0	1.0
Masonite (smooth)	6.3	1.5
Unpainted plywood	11.0	2.7
Unpainted particle board	11.7	3.0
Cement block (semigloss latex)	12.5	3.2
Cement block (unfinished)	145.5	36.3



GENERAL INFORMATION (Continued)

SPOT, OR CRACK AND CREVICE APPLICATIONS: Mix 8 milliliters of TEMPO 2 in one gallon of water to make a dilution of 0.05% active ingredient concentration (see Note 3). Use a low pressure system with a pin-point or variable pattern nozzle to apply the suspension in specific areas such as: cracks and crevices in or behind baseboards, in floors, walls, expansion joints, areas around water and sewer pipes, wall voids, or voids in table legs and equipment where pests can hide as well as

other similar areas. Spot treatments may also be made to areas including but not limited to storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves and other equipment, the underside of shelves, drawers and similar areas. TEMPO 2 can be reapplied at 10-day intervals, if necessary. Do not apply where electrical short circuits could occur. Use a dust or dry bait in these areas.

Note 3: Under conditions of severe pest infestation or when quicker knock-down and/or longer residual control is needed, mix 16 milliliters of TEMPO 2 in one gallon of water to make a dilution of 0.1% active ingredient concentration.

EXTENDED COCKROACH CONTROL WITH INSECT GROWTH REGULATORS: Use TEMPO 2 in a tank mix combination with an Insect Growth Regulator (IGR) for extended control of American, Asian, German, oriental, brown-banded, smoky brown and other species of cockroaches. Use in food areas of food handling establishments only if all products in tank mix are registered for such use.

Make applications in accordance with those label instructions which are the same for each product. Prepare the tank mix using the recommended rate of TEMPO 2 and the IGR of choice by adding the TEMPO 2 first and making sure it's a well mixed dilution, then adding the correct amount of IGR according to it's label instructions. Follow all label instructions for use patterns and spray intervals from the IGR label to achieve maximum benefit.

Refer to the appropriate sections of the label for TEMPO 2 and the label for the IGR of choice for additional precautions, restrictions, limitations, and application information.

FOOD/FEED HANDLING ESTABLISHMENT

APPLICATIONS: TEMPO 2 applications are permitted in both food/feed and non-food areas of food/feed handling establishments as a general surface, spot, or crack and crevice treatment. Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed, prepared or served. Included also are areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) of food. Serving areas where food is exposed and the facility is in operation are also considered food areas.

TEMPO 2 is authorized by the USDA for use in federally inspected meat and poultry plants. This product is acceptable for use in edible product areas of official establishments operating under the Federal meat, poultry, shell egg grading, and egg products inspection programs,

as a crack and crevice treatment. TEMPO 2 is classified as an F2 residual insecticide according to regulations listed under Section 5.6 (A)(1)(b) of the USDA Food Safety Inspection Handbook No. 562. Refer to List of Proprietary Substances and Nonfood Compounds for authorized listing.

General Surface Application: Do not apply as a general surface application in the food handling areas of the facility, when the facility is in operation or foods are exposed. Do not apply directly to food products. Cover or remove all food processing and/or handling equipment during application. After application in food processing plants, bakeries, cafeterias and similar facilities, wash all equipment, benches, shelving and other surfaces which food will contact. Clean food handling or processing equipment and thoroughly rinse with clean, fresh water.

Spot, Crack and Crevice Application: Spot or crack and crevice applications may be made while the facility is in operation; however, food should be covered or removed from area being treated. Do not apply directly to food or food-handling surfaces.

INDOOR PEST CONTROL**CRAWLING INSECT PEST CONTROL**

For general household pests and occasional invaders make applications in a manner as previously described under General Surface, Spot, or Crack and Crevice Application. Particular attention should be given to treating entry points and harborage areas.

For pantry pest control of exposed adult and immature stages of insects, make application to cupboards, shelving and storage areas. Particular attention should be given to treating cracks and crevices and other harborage areas. Remove all utensils, uncovered foodstuffs (or any with package opened), shelf paper and other objects before spraying. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff or other items. Any foodstuff accidentally contaminated with spray dilution should be discarded.

GENERAL INFORMATION (Continued)

For stored product pest control of exposed adult and immature stages of insect pests, apply to cracks, crevices, and other surfaces where the pests have been seen or has harborage. Treat warehouses, production facilities, storage areas, rail cars, truck beds and other areas where products are stored before filling with the product. TEMPO 2 may be used by pest control operators and grain producers to treat grain storage facilities and other areas noted above for stored product pest control. Cleaning of all areas prior to use of TEMPO 2 will increase levels of control. Any foodstuffs infested with pests should be removed and destroyed.

For premise pest control make application to rugs, carpeting beneath furniture, in closets and storage areas where these pests normally feed or hide. Do not apply to entire floor area. Applications to furniture should be restricted to those areas where no prolonged contact by humans will occur. Avoid contact with treated surfaces until dry. Remove or tightly cover fish tanks and disconnect aerators during application. Pets should be removed from the area being treated during application and until treated surfaces are completely dry.

For aircraft pest control apply to cracks, crevices and other surfaces where the pests have been seen or have harborage. Applications can be made to carpet and upholstered surfaces where no prolonged contact by human skin will occur. Applications should not be made when passengers or non-essential personnel are present in the immediate or treated area. All surfaces should be dry prior to re-entry by passengers or other personnel.

For use by pest control operators and livestock producers in livestock housing structures and pet kennels to control crawling and flying insect pests. Apply as a general surface and/or a crack and crevice spray. Control will be enhanced when facilities are cleaned and interior applications are supplemented with exterior perimeter treatments. Do not make applications of TEMPO 2 when animals are present in facility. Allow sprays to dry before re-stocking of the facility. Do not make applications to animal feedstuffs or watering equipment.

FLYING INSECT PEST CONTROL (General Surface Spray)
For control of flying insects indoors make application to surfaces as directed under Directions For Use, where the pests collect or rest. Do not apply as a "space spray" application.

OUTDOOR PEST CONTROL

For control of flying insects outdoors use a 0.05% to 0.1% dilution and make applications to outside surfaces of buildings, porches, patios, garages and other areas where these pests have been seen or found. Use a 0.1% dilution and make pin stream applications directly to the nests of wasps, yellow-jackets and hornets.

For perimeter pest control, make a general surface application to outside surfaces of buildings, porches, patios, garages and other adjacent areas where pests have been seen or found. To help prevent infestations of buildings by occasional invaders, treat soil, turf or other substrates adjacent to buildings, the building foundation, walls, around doors and windows, soffit areas where these pests are active and may find entrance or harborage. Apply a minimum of 6 milliliters of TEMPO 2 per 1000 sq ft in sufficient water to provide adequate coverage.

For aid in control of the imported red fire ant, use a 0.1% dilution of TEMPO 2 and thoroughly drench or inject the entire mound area. Treat all areas of the mound showing activity to provide contact control of the adult fire ants. TEMPO 2 will provide contact activity and residual repellency in the active mound.

When using the injection treatment method for control of the imported red fire ant, it is essential that treatment be made to the bottom of the active mound. Apply dilution throughout the downward and upward motion of the injector tool. Multiple injection sites may be needed to ensure complete distribution of the suspension throughout the active mound.

Do not use TEMPO 2 to treat fire ant mounds in any food crop production area, pasture or area where food crop production may occur.

CONTROL OF WOOD INFESTING PESTS

For control of wood infesting beetles on surfaces in homes and other structures, apply a 0.1% dilution of TEMPO 2. For treatment of small areas, apply by brushing or spraying the suspension evenly on wood surfaces. For large or overhead areas of homes, apartment buildings, etc, apply as a coarse spray to thoroughly cover the area. Cover all surfaces below the area being sprayed with plastic sheeting or other material which can be disposed of by placing in trash if contamination from dripping occurs. Sprayed surfaces should be avoided until the treated area is completely dry.

For control of above ground termites and wood-infesting beetles in localized areas, apply a 0.1% dilution of TEMPO 2 to voids and galleries in damaged wood, and in spaces between wooden structural members and between the sill plate and foundation where wood is vulnerable. Applications may be made to inaccessible areas by drilling, and then injecting the suspension with a suitable, directional injector into the damaged wood or wall voids. Termite carton nests in building voids may be injected with 0.1% dilution using a pointed injection tool. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from building voids when such nests are found. Application to attics, crawl spaces, unfinished basements, or man-made

GENERAL INFORMATION (Continued)

voids may be made with a coarse fan spray of 0.1% dilution to control exposed worker and winged reproductive forms of termites. This type of application is intended to be a supplemental treatment for control of drywood and above ground subterranean termites and other wood-infesting insects.

For control of swarming or reproductive stages of termites, apply a 0.1% dilution to the swarm or area on which they collect.

For control of above ground termites inside trees, utility poles, fencing and decking materials and similar structural members, drill to find the interior infested cavity and inject 0.1% dilution using an appropriate treatment tool with a splashback guard.

Termite carton nests in trees may be injected with 0.1% dilution using a pointed injection tool. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from trees when such nests are found.

For protection of firewood from carpenter ants and termites, treat soil beneath firewood prior to stacking with a 0.1% dilution at 1 gallon per 8 square feet to prevent carpenter ant or termite infestation.

For control of carpenter ants in houses and other structures, use a 0.1% dilution and apply as a general surface, spot, crack and crevice or wall void application. Repeat treatments when necessary. Apply around doors and windows and other places where carpenter ants may enter the premises. Spray into cracks and crevices or through small drilled holes into voids where these ants or their nests are present. Use a sufficient amount of coarse spray to cover the area. Do not exceed 1 gallon of dilution per 1000 square feet of treated surface.

For control of carpenter ants inside trees, utility poles, fencing and decking materials and similar structural members, drill to find the interior infested cavity and inject 0.1% dilution using an appropriate treatment tool with a splashback guard. Repeat as needed.

For control of tunneling carpenter ants in soil, apply a 0.1% dilution as a drench or inject the dilution at intervals of 8 to 12 inches, using 1 quart of the dilution per linear foot. Establish a uniform vertical barrier at the edge of walls, driveways or other hard surfaces where ants are tunneling beneath the surfaces.

For control of carpenter bees in structures, use a 0.1% dilution and spray the liquid directly into gallery entrance holes. Following treatment, the entrance holes may be left open 24 hours to be certain that returning adult bees are killed. When there is no activity, the hole may be sealed with a suitable sealant.

8049

GENERAL INFORMATION (Continued)**PESTS CONTROLLED BY TEMPO *****I. INDOOR PREMISE PESTS****1. Crawling Pests**

Ants (except Pharaoh)
 Bedbugs
 Carpet beetles
 Centipedes
 Cockroaches
 American
 Asian
 German
 Oriental
 brown-banded
 smoky brown
 Crickets
 Darkling beetles
 Earwigs
 Firebrats
 Millipedes
 Pillbugs
 Silverfish
 Sowbugs
 Spiders

2. Flying Pests

Clothes moths
 Flies
 Gnats
 Midges
 Mosquitoes
 Moths
 Wasps
 Yellow-jackets

3. Pantry & Stored**Product Pests**

Beetles (exposed
 adults & immature
 stages)
 Cadelle
 Cigarette
 Confused Flour
 Dermestid
 Drug-store
 Granary weevil

3. Pantry & Stored**Product Pests**

Beetles (exposed
 adults & immature
 stages) (Continued)
 Hide
 Larder
 Leather
 Lesser grain borer
 Lesser mealworm
 Merchant grain
 Mealworm
 Red flour
 Rice weevil
 Sawtoothed grain
 Warehouse
 Moths
 Indian meal
 Mediterranean flour

II. FOOD PROCESSING PESTS

(Same crawling &
 flying pests, pantry & stored
 product pests as for INDOOR
 PREMISE) and
 Fruitflies
 Phoridflies
 Sciardflies

III. WOOD INFESTING PESTS

Beetles
 Ambrosia
 Deathwatch
 False powderpost
 Old house borer
 Powderpost
 Carpenter ants
 Carpenter bees
 Termites
 Subterranean
 Formosan
 Drywood

IV. OUTDOOR/PERIMETER PESTS

Ants
 Bees
 Boxelder bugs
 Carpenter ants
 Cecidflies
 Centipedes
 Clusterflies
 Cockroaches
 Crickets
 Elm leaf beetle
 Fire ants
 Firebrats
 Flies
 Fleas
 Gnats
 Ground beetles
 Hornets
 Imported red fire ants
 Midges
 Millipedes
 Mosquitoes
 Moths
 Scorpions
 Silverfish
 Spiders
 Ticks
 Wasps
 Yellow-jackets

* For **GENERAL SURFACE APPLICATION**, use 8 milliliters of TEMPO 2 per 1000 square feet in sufficient water to adequately cover the area being treated. Under conditions of severe pest infestation or when quicker knock-down and/or longer residual control is needed, use 16 milliliters of TEMPO 2 per 1000 sq. ft.

* For **SPOT, OR CRACK AND CREVICE APPLICATIONS**, mix 8 milliliters TEMPO 2 in one gallon of water to make a 0.05% active ingredient concentration. Under conditions of severe pest infestation or when quicker knockdown and/or longer residual control is needed, mix 16 milliliters of TEMPO 2 in one gallon of water to make a 0.1% active ingredient concentration.