

PM 22

3125-237

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEB - 4 1994

Melvin K. Tolliver
MILES INC.
AGRICULTURE DIVISION
8400 Hawthorn Road, P.O. Box 4913
Kansas City, MO 64120

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 06/16/93 in Response to PR Notice 93-7
EPA Reg. No. 3125-237
NEMACUR 10% TURF AND ORNAMENTAL NEMATICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola ink on paper that
contains at least 50% recycled fiber

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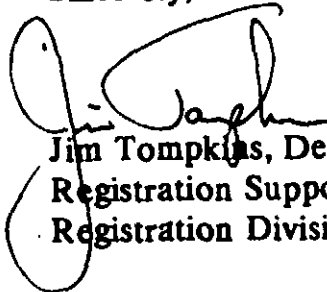
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001 .

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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MILES INC
NEMACUR 10% TURF AND ORNAMENTAL NEMATICIDE
3125-237 06/16/93
Original Submission

Add the following statement to your label: "Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them." Refer to page 20 of the Main Labeling Guidance for placement.
Your label contains redundant WPS phrases that should be eliminated. Please see the attached comments.

NEMACUR 10% Turf and Ornamental

237-7820.YLD

U.S. LABEL

Base Pre-Reg. (7820)

4 7 12

Reason to Issue: To revise in accordance with
Worker Protection Standard, PR Notice 93-7.

Date of Draft: 05/24/93(Pre-Reg)(T)

RESTRICTED USE PESTICIDE

Due to high acute oral, dermal and inhalation toxicity
For Sale to and Use Only by a Certified Applicator for Uses Authorize
d by His Certification, or by Persons Under His Direct Supervision.

NEMACUR® 10%

Turf and Ornamental Nematicide

FOR EFFECTIVE CONTROL OF NEMATODES IN
ORNAMENTALS, NURSERY STOCK, AND TURFGRASSES

ACTIVE INGREDIENT:

Ethyl 3-methyl-4-(methylthio)phenyl(l-methylethyl)phosphoramidate 10%

INERT INGREDIENTS: 90%

100%

EPA Reg. No. 3125-237

Net Weight: _____ Pounds

STOP - READ THE LABEL BEFORE USE

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO



POISON

See rear panel for Statements of Practical Treatment and other Precautionary Statements.

Si usted no entiende la etiqueta, busque a alguien
para que se la explique a usted en detalle.

(If you do not understand the label, find
someone to explain it to you in detail.)

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

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

ACCEPTED
with COMMENTS
In EPA Letter Dated

FEB 4 1994

MILES

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

3125-237

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER



POISON

Fatal if swallowed, or absorbed through the skin. Causes eye irritation. May be fatal if inhaled. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Wear protective clothing, rubber gloves, and goggles or face shield when handling. Wash thoroughly with soap and water after handling and before eating or smoking. Remove and wash contaminated clothing before reuse.

Do not contaminate feed or food. Keep all unprotected persons out of the operating area or vicinity. Wash hands, arms, and face thoroughly with soap and warm water before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse. Keep out of the reach of children.

Personal Protective Equipment Applicators and other handlers must wear:

- Chemical-resistant protective suit
- Water-proof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements: When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

SYMPTOMS OF POISONING: A sense of "tightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

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STATEMENTS OF PRACTICAL TREATMENT**Organophosphate**

In case of poisoning call a physician immediately. Have patient lie down and keep quiet. If swallowed, vomiting should be induced. Administer water freely and induce vomiting by giving one dose (1/2 oz. or 15 ml.) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes. If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth.

NOTE TO PHYSICIAN: ANTIDOTE - Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine.

Compound inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Cover, incorporate, or pick up spilled granules at row ends or turn areas. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark.

Ground Water Advisory: Fenamiphos is known to leach through soil and has been found in ground water as a result of agriculture use. Users are advised not to apply in areas where soils are permeable, particularly where ground water is used for drinking water. Consult with the pesticide state lead agency for information regarding soil permeability and aquifer vulnerability in your area.

PROTECTIVE CLOTHING AND EQUIPMENT

~~USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT DURING MIXING, LOADING, APPLICATION, REPAIR AND CLEANING OF MIXING, LOADING AND APPLICATION EQUIPMENT, DISPOSAL OF THE PESTICIDE, AND EARLY REENTRY INTO TREATED AREAS: Protective suit of one or two pieces covering all parts of the body except head, hand, and feet; chemical resistant gloves; chemical resistant shoes (or chemical resistant shoe covers or chemical resistant boots); and a NIOSH or MSHA approved respirator. In addition, mixer/loaders must wear a chemical resistant apron. During equipment repair and cleaning, the respirator need not be worn. For those uses where a 48 hour re-entry interval is recommended, the respirator need not be worn after the treated areas are dry after irrigation following application.~~

~~IF MIXING/LOADING IS PERFORMED USING A CLOSED SYSTEM, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: Long sleeved shirt and long legged pants; chemical resistant gloves; chemical resistant apron; shoes and socks.~~

~~IF APPLICATION IS PERFORMED USING AN ENCLOSED CAB, THE FOLLOWING PROTECTIVE CLOTHING AND~~

~~EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: Long sleeved shirt and long legged pants; shoes, and socks. Chemical resistant gloves must be available in the cab and must be worn when exiting. This clothing is inadequate to protect you during equipment repair or cleaning, reentry, or pesticide disposal work.~~

~~IMPORTANT! If pesticide comes in contact with skin, wash off with soap and water. Always wash hands, face, and arms with soap and water before smoking, eating, drinking, or toileting.~~

~~AFTER WORK: Before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Wear clean clothes. Do not reuse contaminated clothing. Personal clothing worn during work must be laundered separately from household articles. Store protective clothing separately from personal clothing. Clean or launder protective clothing after each use. Respirators must be cleaned and filters replaced according to instructions included with the respirator. Protective clothing and equipment that becomes heavily contaminated must be destroyed according to state and local regulations. HEAVILY CONTAMINATED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.~~

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RE-ENTRY STATEMENTS

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Unless more restrictive intervals are specified elsewhere on this label, do not allow reentry into treated areas until areas are dry following irrigation after application unless appropriate protective clothing is worn. Treated sod farms and commercial nurseries should not be re-entered for 48 hours after application unless protective clothing is worn. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings should include those statements found under the label heading "Precautionary Statements" and "Re-entry Statements" included on this label. When oral warnings are given,

warning shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: DANGER, area treated with NEMACUR 10% Turf and Ornamental Nematicide (date of application). Unless more restrictive intervals are specified elsewhere on this label do not allow reentry into treated areas until areas are dry following irrigation after application, unless appropriate protective clothing is worn. Treated sod farms and commercial nurseries should not be reentered for 48 hours after application unless appropriate protective clothing is worn. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes. If swallowed, vomiting should be induced. (See Precautionary Statements on label).

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Chemical-resistant protective suit
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

IMPORTANT: Read these entire Directions and Conditions of Sale before using NEMACUR 10% Turf & Ornamental Nematicide.

CONDITIONS OF SALE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. MILES OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

DIRECTIONS FOR USE (Continued)

TURF GRASSES, ORNAMENTALS AND NURSERY STOCK:
NEMACUR 10% Turf and Ornamental Nematicide has shown excellent activity against the major genera of nematodes attacking turfgrasses and ornamental plants. When used according to directions NEMACUR 10% Turf and Ornamental Nematicide may control nematodes up to 7 months or longer.

NEMACUR 10% Turf and Ornamental Nematicide kills nematodes by contact action. Treated areas should be irrigated immediately after application in order to move the toxicant into the root zone.

NEMACUR 10% Turf and Ornamental Nematicide can be used on turfgrasses such as Bermuda and centipede grasses, bluegrasses, and bentgrasses. When applied uniformly according to directions, it will not harm established turfgrasses listed. Do not apply to newly seeded areas until the plants have developed good root systems.

Consult your local Miles Representative, Agricultural Experiment Station or Extension authorities for information regarding proper timing of applications to turf.

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RECOMMENDED APPLICATIONS			
USE	PEST	DOSAGE NEMACUR 10% TURF & ORNAMENTAL NEMATICIDE	REMARKS
Turfgrasses FOR USE ONLY ON GOLF COURSES, CEMETERIES, SOD FARMS, AND INDUSTRIAL GROUNDS. In California, only for use on golf courses and sod farms.	Nematodes Mole crickets (except California)	2.3 lb per 1000 sq ft or 100 lb/acre	<p>Distribute specified dosage evenly over area to be treated. Irrigate the treated area immediately following application. Apply a minimum of 1/2 inch of water to move the product into the soil. The total irrigation must be completed within 6 hours of application. Apply irrigation only so that puddling or runoff does not occur.</p> <p>On golf course fairways apply across fairways within irrigation zones. Irrigation should be applied by zone immediately following application within that zone. Do not apply to more fairway irrigation zones than can be irrigated upon completion of application and finished within 6 hours after treatment.</p> <p>Do not apply product after soil has become saturated with water (reached field capacity).</p> <p>Do not treat newly seeded areas until the plants have developed good root systems. Do not apply more than 200 lb of product per acre per year. Do not use on residential lawns or public recreational areas other than golf courses.</p> <p>On sod farms, treated turf should not be cut for sod or sod handled for 30 days after treatment.</p>
Flowers Iris, Lily and Narcissus bulbs (Except California)	Nematodes	60 to 100 lb per acre (based on 42-inch rows-12,445 linear feet of row per acre) or 4.8 to 8 lb per 1000 feet of row	Apply specified dosage in the furrow at time of planting so that the material is incorporated into the covering soil, or in a 10- to 12-inch band over the row after planting. NOTE: On year-old plantings, apply over the row. Irrigate immediately after treatment using a minimum of 1/2 inch of water. Tolerance of bulbs to NEMACUR may vary with varieties. Test a small number of plants if tolerance is not locally known. Do not apply to green foliage.
Leather leaf fern	Nematodes	100 lb per acre	Apply specified dosage uniformly to the area. Irrigate immediately after treatment using a minimum of 1/2 inch of water.
Protea <i>Leucospermum</i> spp. <i>Protea</i> spp. <i>Banksia</i> spp. <i>Leucadendron</i> spp. (Hawaii Only)	Nematodes	1 to 2.25 lb per 1000 sq ft (45 to 97.5 lb per acre)	Distribute specified dosage evenly over area to be treated as a post-plant application. Incorporate into the upper 2 to 3 inches of soil and irrigate treated area immediately using a minimum of 1/2 inch of water. Do not apply more than twice per year.
Anthurium	Nematodes	18.3 to 36.7 oz per 1000 sq ft or 50 to 100 lb per acre	Apply specified dosage uniformly to the area. Irrigate immediately after treatment using a minimum of 1/2 inch of water. Do not apply more than twice in any one 12-month period.

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RECOMMENDED APPLICATIONS			
USE	PEST	DOSAGE NEMACUR 10% TURF & ORNAMENTAL NEMATICIDE	REMARKS
Nursery Stock (Ajuga <i>(Ajuga metallica c.)</i> Azalea <i>(Rhododendron spp.)</i> Boxwood (<i>Buxus spp.</i>) Cactus (<i>Cactus spp.</i>) Clematis (<i>Clematis spp.</i>) Cotoneaster <i>(Cotoneaster spp.)</i> Euonymus <i>(Euonymus spp.)</i> Firethorn <i>(Pyracantha spp.)</i> Flowering crab <i>(Malus spp.)</i> Flowering cherry <i>(Prunus spp.)</i> Gardenia (<i>Gardenia spp.</i>) Holly (<i>Ilex spp.</i>) Hibiscus (<i>Hibiscus spp.</i>) Ivy <i>(Hedera helix baltica)</i> Juniper (<i>Juniperus spp.</i>) Lilies (<i>Hosta grandiflora</i>) Pachysandra <i>(Pachysandra spp.)</i> Periwinkle <i>(Vinca minor)</i> Pieris (<i>Pieris japonica</i>) Pine (<i>Pinus spp.</i>) Rhododendron <i>(Rhododendron spp.)</i> Rose (<i>Rosa spp.</i>) Sedum (<i>Sedum spp.</i>) Spruce (<i>Picea spp.</i>) Viburnum <i>(Viburnum spp.)</i> Yews (<i>Taxus spp.</i>) Yucca (<i>Yucca spp.</i>)	Nematodes	100 lb per acre	<p>Apply specified dosage uniformly to the area. Irrigate immediately after treatment using a minimum of 1/2 inch of water.</p> <p>Do not apply more than twice per year per planting site. Do not consume fruit or nuts from treated plants.</p> <p>If nursery stock other than those listed are to be treated, treat a few plants first and observe for phytotoxicity before treating on a large scale.</p> <p>Workers shall not enter treated areas within 48 hours after completion of an application unless impervious boots and gloves are worn. In addition, for a 7-day period following completion of an application, impervious gloves and boots must be worn when entering treated fields that are muddy.</p>

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Recommended Spreader Settings for Applications to Turf

These spreader settings are starting points for equipment calibration. As spreader age and condition, and terrain roughness have an effect on delivery rates, individual spreaders should be calibrated to determine the correct setting.

Spreader Type	DOSAGE NEMACUR 10% TURF & ORNAMENTAL NEMATICIDE Lb Per 1000 Sq Ft	Applicator Speed	Spreader Width
Cyclone B-1	3 1/4	3 mph	6 ft
Gandy	17.5	2 mph	
10-T	24.5	4 mph	
603	6.75	2 mph	
	16.5	4 mph	
604	7.5	2 mph	
	11.25	4 mph	
605	7.5	2 mph	
	10.75	4 mph	
Turf Tender	17	2 mph	
	21	4 mph	
Lesco 101	C+	3 mph	6 ft
Scotts' RX-7	A+	3 mph	6 ft
Scotts' RX-8	G+	3 mph	6 ft

RESTRICTIONS

Any food crop not specified on this label may be planted into treated areas 120 days after the last application. Any cover crops that are planted during the 120 day period must be plowed under and not grazed.

Do not use on other crops or plants not covered by the

label. Use only according to label directions. Do not allow livestock or poultry to feed on grass or grass clippings.

Do not apply this product with a knapsack applicator or similar equipment that is placed on the user's body.

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STORAGE AND DISPOSAL

Not for use or storage in or around the home.

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

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Do not use container in connection with food, feed, or drinking water. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response Telephone Number is 816-242-2582, or contact Chemtrec at 800-424-9300.

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Miles, Inc.
Specialty Products
Box 4913, Kansas City, MO 64120-0013