

US EPA ARCHIVE DOCUMENT

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Date Out of EFGWB: FEB 17 1991

TO: Dennis Edwards/C. Andreasen
Product Manager #12
Registration Division (H7505C)

FROM: Akiva D. Abramovitch, Ph.D., Section Chief *AK*
Environmental Chemistry Review Section #3
Environmental Fate & Ground Water Branch/EFED (H7507C)

THRU: Hank Jacoby, Chief *Hank Jacoby*
Environmental Fate & Ground Water Branch
Environmental Fate and Effects Division (H7507C)

Attached, please find the EFGWB review of...

Reg./File # : Submission # S275054

Chemical Name: Chlorpyrifos

Type Product : Insecticide

Product Name : DURSBAN ME20 Microencapsulated Insecticide

Company Name : DowElanco

Purpose : Review request to amend the label to add use on
turf and ornamental plants (field/greenhouse).

Date Received: 12/03/90 EFGWB#: 91-0219

Action Code: 310 Total Review Time (days): 2.0

Deferrals to: _____ Ecological Effects Branch, EFED
_____ Science Integration & Policy Staff, EFED
_____ Non-Dietary Exposure Branch, HED
_____ Dietary Exposure Branch, HED
_____ Toxicology Branch I, HED
_____ Toxicology Branch II, HED

DP BARCODE: D158874

CASE: 107096
SUBMISSION: S275054

DATA PACKAGE RECORD
BEAN SHEET

DATE: 11/30/90
Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REGISTRATION ACTION: 310 TECH-ADDED ME TOO USE AMD
CHEMICAL: 59101 CHLORPYRIFOS
ID#: 000464-00629 DURSBAN ME20 MICROENCAPSULATED INSECTICIDE
COMPANY: 000464 DOW CHEMICAL U.S.A.
PRODUCT MANAGER: 12 DENNIS JR EDWARDS 703-557-2386 ROOM: CM#2 202
PM TEAM REVIEWER: CARL ANDREASEN 703-557-4417 ROOM: CM#2 202B
RECEIVED DATE: 05/17/90 DUE OUT DATE: / /

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 158874 EXPEDITE: N DATE SENT: 11/30/90 DATE RET.: / /
DP TYPE: 001 Submission Related Data Package
ADMIN DUE DATE: 01/14/91 CSF: Y LABEL: Y
ASSIGNED TO DATE IN ASSIGNED TO DATE IN
DIV : EFED 12/03/90 REVR : / /
BRAN: EFGB / / CONTR: / /
SECT: / /

* * * DATA PACKAGE REVIEW INSTRUCTIONS * * *

Please review. Does registration of a microencapsulated product for turf and ornamental use require environmental fate data?

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC BRANCH/SECTION DATE OUT DUE BACK INS CSF LABEL

91-0219

Herb

1/14

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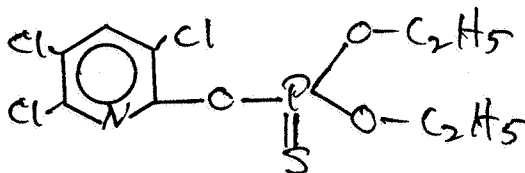
1.0 CHEMICAL:

Common Name- Chlorpyrifos

Chemical Name- O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate

Trade Name- Dursban ME20
Microencapsulated Insecticide

Chemical Structure-



2.0 TEST MATERIAL: Not applicable.

3.0 STUDY/ACTION TYPE: The registrant is requesting an amendment to their Dursban ME20 Insecticide label to add use on turf and ornamental plants (field/greenhouse). The instructions to reviewers asked what, if any, environmental fate data was required for an microencapsulated product?

4.0 DOCUMENT IDENTIFICATION:

1. Letter from DowElanco to PM 12 requesting amendment of the label.

2. Specimen label with proposed new uses.

5.0 REVIEWED BY:

Herbert L. Manning, Ph.D.
Microbiologist, EFGWB/EFED

Signature: *Herbert L. Manning*
Date: FEB 12 1991

6.0 APPROVED BY:

Akiva D. Abramovitch, Ph.D., Chief
Section 3, EFGWB/EFED

Signature: *Akiva Abramovitch*
Date: FEB 12 1991

7.0 CONCLUSION:

7.1 The EFGWB concludes that fate data are required for a microencapsulated insecticide having Terrestrial Non-Food and

Greenhouse Non-Food uses (turf and ornamental plants [field/greenhouse]). The data required for these use patterns and their current status (satisfied or unsatisfied) in our files is as follows:

- (a) Hydrolysis.....Satisfied.....Chlorpyrifos is stable to hydrolysis at pH 5, 7, and 9.
- (b) Photodegradation in Water.....Unsatisfied.
- (c) Aerobic Soil Metabolism.....Unsatisfied.
- (d) Leaching-Adsorption/Desorption.....Unsatisfied.
- (e) Terrestrial Field Dissipation.....Unsatisfied.
- (f) Bioaccumulation in Fish.....Unsatisfied.

Lab Volatility data is often required by a Greenhouse Non-Food use if the vapor pressure of the product exceeds 10^{-6} mm Hg (the vapor pressure of chlorpyrifos is 1.9×10^{-5} mm Hg) and there is toxicological concern (Tox Category II for acute inhalation). However, in this case the data are not required since the microencapsulated product is in Toxicity Category III (registrant's letter), due to the encapsulation of the active ingredient. However, a check of the Toxicology Branch's Caswell file indicates that chlorpyrifos is in Tox Category III for acute inhalation.

8.0 RECOMMENDATION:

8.1 Inform the registrant that the unsatisfied data listed in Section 7.0, CONCLUSIONS are required for chlorpyrifos in Dursban ME20 Microencapsulated Insecticide when used for Terrestrial Non-Food and Greenhouse Non-Food purposes (turf and ornamental plants [field/greenhouse]).

9.0 BACKGROUND:

A. Introduction- See Section 3 and the attached information.

B. Direction for Use- See the attached label.

10.0 DISCUSSION OF INDIVIDUAL STUDY: Not applicable.

11.0 COMPLETION OF ONE-LINER: Not applicable.

12.0 CBI APPENDIX: There is no CBI in this review.

DowElanco
4040 Vincennes Circle
Indianapolis, IN 46268-3030

Dennis Edwards
Product Manager (12)
U.S. Environmental Protection Agency
Registration Division (H7504C)
Room 202, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202



Dear Mr Edwards,

Re: DURSBAN ME20 (EPA REG. NO. 62719-88)

DowElanco seeks to amend the label for DURSBAN ME20 to include a use pattern for pests of turf and ornamental plants. (There is currently a Special Local Need registration (CA-880013) for greenhouse and field grown ornamentals in California.)

Enclosed please find the following:

1. Application for Pesticide Amendment (EPA Form 8570-1).
2. Certification with Respect to Citation of Data (EPA Form 8570-29).
3. Five (5) copies of draft labeling.

The subject use pattern is currently registered for other chlorpyrifos formulations and products, however; the toxicological designation of Category III for DURSBAN ME20 is unique and will be of benefit to the end use applicator.

If you have any questions, please do not hesitate to contact me at (317) 870-7270.

Best Regards,

A handwritten signature in black ink, appearing to read "Jeff Pinkham".

Jeff Pinkham PhD
Product Registration Manager

Specimen Label

Dursban* ME20

Microencapsulated Insecticide

Controls Numerous Pests In and Around Households and Other Structures

To Be Sold Only to and Applied by Commercial Applicators Responsible for Insect Control Programs or Persons Under the Direct Supervision of Such Commercial Applicators.

Active Ingredient(s):

Chlorpyrifos [O,O-diethyl-O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate] 20.0%
Inert Ingredient(s): 80.0%

Contains 1.7 pounds of chlorpyrifos per gallon

E.P.A. Registration No. 62719-88

E.P.A. Est. 11715-TN-11Y; 464-MI-1MM.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUCION:

PRECAUCION AL USUARIO:

Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

MAY BE HARMFUL IF SWALLOWED

• HARMFUL IF ABSORBED THROUGH SKIN

Do Not Get In Eyes, On Skin Or Clothing

• Avoid Breathing Spray Mist • Wash Thoroughly With Soap And Water After Handling And Before Eating Or Smoking

• Remove Contaminated Clothing And Wash Before Reuse • Keep Away From Food, Feedstuffs And Water Supplies

STATEMENTS OF PRACTICAL TREATMENT:

If Swallowed: Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not give anything by mouth to an unconscious person. **If On Skin:** Wash with plenty of soap and water. Get medical attention if irritation develops. **If In Eyes:** Flush with plenty of water for 5 minutes. Get medical attention if irritation persists. **If Inhaled:** Remove to fresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

Environmental Hazards

This pesticide is toxic to birds and wildlife. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of waste. Do not contaminate water when disposing of equipment washwaters.

NOTICE

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return unopened package to once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under WARRANTY LIMITATIONS AND DISCLAIMER.

IN CASE OF AN EMERGENCY

endangering life or property involving this product, call collect 517-636-4400
Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

Dursban* ME20

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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.

General Information

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

Do not tank mix this product with dichlorvos (DDVP) containing products.

DURSBAN ME20 insecticide is a flowable microencapsulated concentrate designed for use as a residual spray to control various pests in and around residential and non-residential structures. DURSBAN ME20 may be sprayed on any surface which will not be damaged or stained by water. A visible deposit may appear on some dark surfaces. This deposit can be easily removed with a cloth or damp sponge.

Do not apply this product to conduits, motor housings, junction and switch boxes, or other electrical equipment because of possible shock hazard. **Attention:** Do not allow spray to contact food or food-contacting surfaces, feedstuffs, or water supplies. Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product. Remove pets and cover fish bowls (tanks) before spraying. Do not use in fogging equipment to apply the product indoors. Do not allow adults, children or pets on treated areas until spray has dried. Keep out of fishpools or other bodies of water. Do not treat vegetable gardens. Do not use in poultry houses.

Mixing Instructions: Thoroughly clean spray equipment before using DURSBAN ME20. Shake concentrate well before diluting so that material is thoroughly dispersed. When diluting, add water to the spray tank and the appropriate amount of DURSBAN ME20. **AGITATE THE SPRAYER BEFORE USING** and occasionally during use to ensure even coverage. Re-agitate sprayer if dilution is left in sprayer overnight. **IF SPRAY SCREENS ARE USED, THEY SHOULD BE 50 MESH OR LARGER.** Dilute DURSBAN ME20 insecticide only with water.

Amount of DURSBAN ME20 to Make 1 Gallon of Finished Spray

% Concentration of Sprayer Mixture	0.2%	0.4%	0.5%
DURSBAN ME20	1 1/2 fl. oz. (38 ml)	2 3/4 fl. oz. (76 ml)	3 1/2 fl. oz. (95 ml)

General Pest Control Indoors

General Directions for Use: DURSBAN ME20 may be applied within residential and non-residential buildings or structures and within nonfood areas of industrial, institutional, and commercial buildings, including hospitals, stores, manufacturing plants, and warehouses. Treat where insects are found or normally occur. Application of a 0.2% solution is suitable for control of light pest infestations (i.e. maintenance applications). Application of a 0.4% solution provides residual control of heavy infestations (i.e. clean-out applications). Where extended residual control is desired, apply DURSBAN ME20 at a rate of 0.5% solution. A period of 4 to 7 days is normally required to observe maximum effectiveness on insect populations; therefore, limit retreatments to no more often than once per every 7 days. Apply spray solutions in such a manner as to minimize spray drift to non-target surfaces.

Indoor Pests Controlled With DURSBAN ME20†

Ants (1)	Crickets	Mediterranean flour moths
Brown dog ticks (2)	Earwigs	Millipedes
Carpet beetles (3)	Firebrats	Rice weevils
Centipedes	Fleas (5)	Silverfish
Clover mites	Flour beetles (Confused, Red, Saw-toothed)	Sowbugs
Cockroaches (Such as: American, Brownbanded, German, Oriental, Smokey brown, Asian) (4)	Indian meal moths	Spiders

†Numbers in parentheses refer to Specific Directions.

Specific Indoor Use Directions

- 1) **Ants** may be controlled by treating ant trails and wherever else these pests may find entrance. For example, around doors and windows.
- 2) **Brown dog ticks** may be controlled by applying spray to infested areas, such as pet beds and resting quarters: nearby cracks and crevices; along baseboards, windows and door frames, where these pests may be present. For best results old bedding should be removed or replaced with clean, fresh bedding after treatment. **Do not treat pets with this product.**
- 3) **Carpet beetles** may be controlled by thoroughly applying the spray as a spot treatment along baseboards and edges of carpeting; under carpeting, rugs and furniture; in closets and on shelving. Spots are defined as areas not to exceed two square feet, and two spots cannot be connected.
- 4) **Cockroaches** are best controlled by making crack and crevice or spot treatments. Treat where insects are found or normally occur including, but not limited to, dark corners of rooms and closets; floor drains; cracks and crevices in walls; along and behind baseboards; beneath and behind sinks, stoves, refrigerators, refrigerator units, and cabinets; and around plumbing and other utility installations. Crack and crevice treatments are applied by delivering a pin stream or small amounts of solution directly into cracks or voids. Spot treatments are defined as areas not to exceed two square feet. Two spots cannot be connected. Limit spot applications to less than 20% of the lower wall and floor surface.

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- 5) **Fleas** are best controlled by a total management program. It is suggested that infested areas be thoroughly vacuumed prior to treatment. These areas include all carpet, upholstered furniture, baseboards and other indoor areas frequented by pets. The vacuum cleaner bag should be discarded in an outdoor trash container. Pet bedding should be cleaned or replaced. Other than the applicator, treated areas should be vacated during application. Cover aquaria and fish bowls and remove other pets. **Do not permit humans or pets to contact treated areas until spray has thoroughly dried.**

Thoroughly apply DURSBAN ME20 to infested areas. Indoor flea control is achieved by thorough coverage and deep carpet penetration. Use a 0.2% dilution at a rate of 1 gallon of diluted spray per 800-1,600 square feet, depending upon carpet density. Provide uniform coverage, but do not soak treated areas. For residual control a 0.4%-0.5% dilution at the rate of 1 gallon of diluted spray per about 1,600 square feet may be applied. Entire carpets may be treated. If fleas reappear in about 1-2 weeks after treatment, it is probably because they have hatched from their pupal (cocoon) stage. If this occurs, either repeat treatment or allow the product's time-release microcapsules another week to kill newly-emerged fleas. **Do not treat pets** with this product.

Effective flea control includes controlling the source of flea infestations. This can require treatment of pets with a product registered for flea control and treating outside areas frequented by pets. DURSBAN ME20 can also be applied out-of-doors for flea control.

General Pest Control Outdoors

Use DURSBAN ME20 to control outdoor pests listed in the accompanying table by application as either a perimeter treatment or as a residual spray.

Perimeter treatments help prevent infestation of buildings and may be applied at rates ranging from 10 to 20 fluid ounces per 50 gallons of spray solution. When making perimeter treatments, apply DURSBAN ME20 where pests are active or may find entrance. For example, treat a band of soil 6 to 10 feet wide around and adjacent to buildings and treat the building foundation to a height of 2 to 3 feet. Apply as a coarse spray at the rate of about 10 gallons spray mixture per 1,000 sq. ft. to thoroughly and uniformly wet the band area.

Residual sprays provide extended control and may be applied at a rate of 1½ to 3 fluid ounces of DURSBAN ME20 per 1 gallon of water. Apply dilution to localized areas on outside surfaces of buildings and other outdoor areas where pests congregate or have been seen. Apply as a coarse, low pressure (less than 20 psi) spray or use other suitable equipment to minimize spray drift.

Sewer manhole shafts can be treated for cockroach control. To control cockroaches in sewers add 3.1 fluid ounces of DURSBAN ME20 per each gallon of water and apply approximately 0.5 gallons of spray solution per each 8 vertical feet of manhole shaft. Avoid application directly to drainage water. Most efficient coverage is achieved, but not limited to, by spraying the vertical walls of the sewer manhole shaft using a power sprayer fitted with a long extended wand tipped with a 360 degree spray nozzle.

NOTE: Do not discharge spray or unused material directly into the sewer system. Do not apply product within 36 hours of predicted heavy rainfall.

NOTE: Persons applying this product in the manhole must wear chemical resistant gloves, a respirator approved by NIOSH for organic chemical vapors, goggles and long-sleeved clothing.

Outdoor Pests Controlled by DURSBAN ME20†

Ants	Earwigs	Scorpions (2)
Bees	Fire ants (1)	Silverfish
Beetles	Fleas	Sowbugs
Carpenter ants	Flies	Spiders
Carpenter bees	Hornets	Ticks
Clover mites	Millipedes	Wasps
Cockroaches	Mosquitoes	Yellowjackets
Crickets		

†Numbers in parentheses refer to specific use directions.

Specific Outdoor Use Directions

- 1) For individual **Fire ant mounds**, apply DURSBAN ME20 as a mound drench at a rate of 1.0 fluid ounce per each 2 gallons of water. Satisfactory results can be expected by applying 2 gallons of dilution per mound. Adjust volume according to mound size, avoiding unnecessary runoff. Allow 7 to 10 days to achieve maximum effectiveness. DURSBAN ME20 has shown residual control of fire ants in excess of 30 days. If retreatment is necessary, limit applications to once per every 14 days.
- 2) For **Scorpions**, remove accumulations of lumber, firewood, and other materials which serve as harborage sites. Before stacking firewood or lumber, apply DURSBAN ME20 as a residual spray to surfaces immediately below such materials. Band treatments may also be helpful in reducing pests immigrating from surrounding areas.

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CONTROL OF TURF AND ORNAMENTAL PESTS

Do not apply this product through any type of irrigation system.

Not for aerial application.

DURSBAN ME20 insecticide is a flowable microencapsulated concentrate designed for use as a spray to control various pests injurious to woody and herbaceous ornamental plants, trees and ornamental turf. The pests controlled are listed in the accompanying specific use directions. DURSBAN ME20 is compatible with insecticides, miticides, herbicides and fungicides commonly recommended except for alkaline materials such as Bordeaux mixture and lime. A small amount of spray mixture should be prepared to check for compatibility before a large volume of spray is mixed.

Mixing Instructions: Thoroughly clean spray equipment before using DURSBAN ME20. Shake concentrate well before diluting so that material is thoroughly dispersed. Fill the tank with half of the required amount of water with agitator operating, add DURSBAN ME20 and finish filling the tank. Maintain sufficient agitation during mixing and application to ensure uniform suspension of DURSBAN ME20 in the spray mixture. Re-agitate spray solution if dilution is left in sprayer overnight. **IF SPRAY SCREENS ARE USED, THEY SHOULD BE 50 MESH OR LARGER.**

Caution: Do not dilute DURSBAN ME20 with oil.

Do not allow contact with treated plants until spray has dried.

Turf and Other Outdoor Uses

Use DURSBAN ME20 to control pests infesting lawns, golf courses, parks, perennial turf grasses, etc., listed in the following table by applying at the recommended dosages and in accordance with the directions given below. Dilute DURSBAN ME20 in enough water to obtain complete and uniform coverage of ~~pest~~^{pest}-infested areas and apply as a coarse, low-pressure spray using suitable application equipment. Spray when pests first appear; re-treat when needed, but not more often than once every 7 days.

Pest*	Amount of DURSBAN ME20 per	
	1000 sq. ft	Acre
Ants (including foraging fire ants)	1.5-2.25 oz.	4-6 pts.
Aphids		
Armyworms (such as: Beet, Fall, Yellowstriped)		
Centipedes		
Chiggers		
Chinch bugs		
Clover mites		
Cutworms		
Crickets		
Earwigs		
Fire ants (mounds) (1)		
Fleas		
Gnats		
Grasshoppers		
Greenbugs		
Leafhoppers		
Millipedes		
Pillbugs		
Sod webworm (lawn moths) (2)		
Sowbugs		
Springtails		
Ticks		
Mole crickets (3)	3 oz.	4 qts

*Numbers in parentheses refer to Specific Directions.

Specific Turf and Other Outdoor Use Directions

- 1) For individual fire ant mounds, apply DURSBAN ME20 as a mound drench at a rate of 1.0 fluid ounce per each 2 gallons of water. Satisfactory results can be expected by applying 2 gallons of dilution per mound. Adjust volume according to mound size, avoiding unnecessary runoff. Allow 7 to 10 days to achieve maximum effectiveness. DURSBAN ME20 has shown residual control of fire ants in excess of 30 days. If retreatment is necessary, limit applications to once per every 14 days.
- 2) For best results in controlling sod webworms, delay watering and mowing the treated area for 12 to 24 hours after treatment.
- 3) For best results in controlling mole crickets, applications should be timed to coincide with the appearance of actively foraging nymphs. Efficacy may be enhanced with pre and post treatment irrigation.

Ornamentals

(Outdoor, Greenhouse, Shadehouse, Nurseries, etc.)

General Directions for Use: Use DURSBAN ME20 insecticide to treat insect infested flowers, bedding and foliage plants, potted plants, shrubs, conifers, vines and shade and flowering trees. Insects which can be controlled with DURSBAN ME20 include, but are not limited to: **thrips, beet armyworm, cutworms, aphids, mealybugs, ants, and leafminers.** Dilute DURSBAN ME20 with water according to diections in the table and apply using suitable hand- or power-operated spray equipment in a manner to provide compleate and uniform coverage. For best results, apply a fine spray to thoroughly wet both upper and lower leaf surfaces and infested stem, limb and trunk surfaces. Penetrate dense foliage but avoid overspraying to the point of excessive runoff. Avoid drift onto non-target plants.

Amount of DURSBAN ME20 in Water to Make:

1 gallon	3 gallons	50 gallons	100 gallons
1/3 - 2/3 fl oz	1 - 2 fl oz	1 - 2 pts	2 - 4 pts

Treat when pests appear and repeat at 7 to 10 day intervals but do not make more than 4 applications in a 30 day period. Rotation of insecticide applications among insecticides with different modes of action is helpful in limiting insecticide resistance in ornamental pest populations. Consult your State Agricultural Experiment Station of Extension Service specialist for application timing and other specific use information.

Note: Greenhouse Grown Ornamentals: Environmental factors and stage of growth significantly affect phytotoxicity. DURSBAN ME20 has been tested on numerous ornamental plants without causing serious phytotoxicity. However, because of the numerous varieties grown, it is recommended that a small group of plants be treated at the recommended rate under the anticipated growing conditions and observed for phytotoxic symptoms. Two test sprays should be made 7 days apart and the plants observed for another 7 days after the second application. DURSBAN ME20 may cause stem curl in some rose varieties when applications are made during the "rice grain" stage.

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STORAGE AND DISPOSAL

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

Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides or fertilizers. Do not store above 122°F for extended periods of time. Preferred storage is above 32°F. Storage below 32°F may result in solidification. If warmed to above 32°F, product will return to original form. Freezing does not adversely affect this product. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Do not reuse empty container. Triple rinse, wrap container and put in trash.

WARRANTY LIMITATIONS AND DISCLAIMER

DowElanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions therein under normal conditions of use. THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL. Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing DowElanco of any claims to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of DowElanco or any other seller will be one of the following, at the election of DowElanco:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

The seller will not be liable for consequential or incidental damages or losses.

The terms of this Warranty Limitations And Disclaimer cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

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MIXTURE
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Indianapolis, Indiana 46268 U.S.A.
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