

Pm 14 3125-184 pag 179

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUN 24 1993

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Miles, Inc.
8400 Hawthorn Road
Kansas City, MO 64120-0013

Gentlemen:

Subject: Dylox 80 turf and Ornamental Insecticide
EPA Registration No. 3125-184
Your letter Dated June 10, 1993

The label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable subject to the comments listed below. Five copies of the finished labeling must be submitted.

Label comment:

- 1. In the "Precautionary Statements" in the paragraph to the right of the label add the sentence "Wash thoroughly with soap and water after handling and before eating or smoking."

Worker Protection Standard comment:

This acceptance of your label does not relieve you of your obligation to comply with the Worker Protection Standard (WPS). If any of your products are covered by the WPS, you are required to submit, and receive the Agency's approval by April 21, 1994, of a revised label reflecting the required label statements of 40 CFR 156, published in the FEDERAL REGISTER of August 21, 1992 (57 FR 38102). Under the WPS labeling regulations at 40 CFR 156, subpart K, § 156.200(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1994, without amended labeling accepted by the Agency.

Sincerely yours,

Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (H7504C)

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

DYLOX 80 Turf & Ornamental

184-7868.YLD

U. S. LABEL

Base Pre-Reg (7868)

Reason to Issue: To establish single Section 3 master label. 06/07/93 Draft; Print with food uses on label.

Date of Draft: 06/07/93(Pre-Reg)(S)
Supersedes Pre-Reg Draft Dated: 03/05/93

DYLOX

80 Turf and Ornamental Insecticide

For Control of Insects on Flowers, Shrubs, Trees and Turf
SURFACE Spray for Fly Control

Only for sale to, use, and storage by professional or commercial applicators

FOR MORE EFFECTIVE INSECT CONTROL

ACTIVE INGREDIENT:

Dimethyl (2,2,2-trichloro-1-hydroxyethyl) phosphonate	80%
INERT INGREDIENTS	20%
	100%

EPA Reg. No. 3125-184
EPA Est. 3125-MO-1

Net Weight: ___ Pounds

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.)

**ACCEPTED
with COMMENTS
to EPA Letter Dated:**

JUN 24 1993

MILES 

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

3125-184

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

May be fatal if swallowed or inhaled. Causes substantial but temporary eye injury. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some people.

Do not breathe dust. When loading spray tank or handling the powder at any other time, wear a mask or pesticide respirator jointly approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health. Do not get in eyes, skin, or on clothing. Wear goggles or safety glasses. Remove contaminated clothing and wash before reuse.

STATEMENTS OF PRACTICAL TREATMENT

If swallowed: Call a physician or Poison Control Center. If medical assistance cannot be given immediately, induce vomiting and get to a hospital. To induce vomiting, administer 1 or 2 glasses of water and stick finger down throat. Repeat until vomitus is clear. Or, if available, administer syrup of ipecac (1/2 oz. or 15 ml.). If vomiting does not occur within 5 to 10 minutes, administer a second dose of ipecac. Do not attempt to give anything by mouth or induce vomiting in an unconscious or convulsing person.

If inhaled: First, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If in eyes: Hold eyelids open and flush with plenty of water. Call a physician.

If on skin: Wash with plenty of soap and water. Get medical attention.

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, autonomic nervous system, and skeletal muscle. Do not give morphine. Watch for pulmonary edema which may develop in serious cases of poisoning even after 24 to 48 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

In case of poisoning, it is also requested that Miles Inc., Agriculture Division, Kansas City, Missouri, be notified. Telephone 816-242-2582.

ENVIRONMENTAL HAZARDS

PROTECT WILDLIFE II

This pesticide is toxic to fish and wildlife and is extremely toxic to aquatic invertebrates. Apply the product in strict accordance with label directions. Do not apply when weather conditions favor drift from areas treated. 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. Do not apply where runoff is likely to occur. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

RESTRICTIONS

Use only according to label directions.

Keep children and pets off treated areas until spray deposit has dried.

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 and Conditions of Sale before using DYLOX 80 Turf and Ornamental Insecticide.

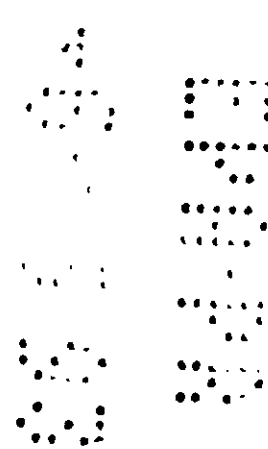
CONDITIONS OF SALE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE APPROPRIATE FOR THE CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED UNDER DIFFERENT ENVIRONMENTAL CONDITIONS BOTH INDOORS AND OUTDOORS UNDER CONDITIONS SIMILAR TO THOSE THAT ARE ORDINARY AND CUSTOMARY WHERE 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.

MIXING: DYLOX 80 Turf and Ornamental Insecticide dissolves readily in water and is suitable for use in all power-operated ground sprayers and aircraft sprayers. To dissolve in water, pour the required amount of DYLOX 80 Turf and Ornamental into full amount of water and then agitate. Use immediately after mixing. It is recommended that DYLOX 80 Turf and Ornamental be used in sprayers equipped with 50 mesh screens. If 100 mesh screens are used, some screen clogging may occur.

DOSAGE: Use specified dosage of DYLOX 80 Turf and Ornamental Insecticide in the amount of water necessary to give complete coverage of foliage. The type of equipment used will determine the concentration required.

SPRAYING: Complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your State Agricultural Extension Service or Experiment Station for specific timing of applications in your area.

NOTE: Spray droplets from applications of DYLOX 80 Turf and Ornamental Insecticide may cause spotting of paint finishes on aluminum and steel siding, automobiles, trucks and tractors. Do not allow spray droplets to contact metal painted surfaces. If accidental exposure does occur, the painted surface should be thoroughly washed immediately after exposure.



RECOMMENDED APPLICATIONS			
CROP	INSECT	OZ OF DYLOX 80% SP	REMARKS
FIELD CROPS Alfalfa Clover (Including mixed stands with grasses)	Alfalfa caterpillar	7-1/2 to 10	Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Three applications may be made per cutting with the last application up to the day cutting.
	Alfalfa webworm	5 to 20	
	Western yellow-striped armyworm	10	
	Beet armyworm Leafhoppers Variegated cutworm	10 to 20	
	Armyworm Alfalfa plant bug Lygus bugs Stink bugs Tarnished plant bug	20	
Corn Field, Sweet, Popcorn	Armyworms Cutworms	10 to 20	Apply specified dosage per acre in sufficient water for complete coverage but not less than 1 gallon per acre. These applications may be made per season. For early application when plants are 3 to 12 inches high, direct the spray to the lower portions of plants and to the soil around the base of the plants. Later applications may be made as full coverage spray up to day of harvest.
Birdsfoot trefoil (Except California)	Armyworms Lygus bugs Stink bugs Variegated cutworm	20 to 30	Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary up to 7 days before harvest. Chaff and hay may be used for feed or forage; however, do not cut green crop for these purposes. NOTE: Due to lygus bug resistance in certain areas, DYLOX used alone may not provide satisfactory control. Consult your local agricultural advisor or Extension Service for recommendations.
Cotton	Cotton fleahopper	5 to 20	Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Do not pasture treated fields within 14 days of application. Do not apply within 7 days of picking. DYLOX application may occasionally cause marginal leaf burn. NOTE: For control of light to moderate infestation of cotton fleahoppers, use 5 oz of DYLOX 80% SP per acre. Higher rates may be required if heavy infestations or migrations occur.
	Cotton leafworm Darkling ground beetle Western yellow-striped armyworm	10 to 20	
	Beet armyworm Southern garden leafhopper	20	
	Black fleahopper complex Cotton leaf perforator Leafroller Lygus bugs Stink bugs	20 to 30	
	Salt-marsh caterpillar	30	

RECOMMENDED APPLICATIONS			
CROP	INSECT	OZ DYLOX 80% SP	REMARKS
SEED FIELD CROPS Alfalfa Clover	Armyworms Lygus bugs Stink bugs Variegated cutworm	20 to 30	Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary up to 7 days before harvest. Chaff from alfalfa and clover seed crop may be used for feed or forage; however, do not cut green crop for these purposes. Do not pasture or use treated soybeans for feed, food, forage, or oil purposes. NOTE: Due to lygus bug resistance in certain areas of alfalfa and clover, DYLOX used alone may not provide satisfactory control. Consult your local agricultural advisor or Extension Service for recommendations.
	Soybeans		
Blueberries	Spanworm	16	Apply specified dosage per acre using sufficient water for complete coverage, but not less than 1 gallon per acre. Make a prebloom application as soon as insects appear. A second application may be made during bloom but not less than 7 days after first application. Do not apply after bloom stage.
VEGETABLES Pumpkin	Variegated cutworm	10 to 20	Apply specified dosage per acre in sufficient water for complete coverage but not less than 1 gallon per acre. Do not apply more than 3 times per season nor within 3 days of harvest.
	Squash bug	20	
Table beets	Variegated cutworm	10 to 20	Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 28 days of harvest. Do not eat tops.
	Alfalfa webworm Beet webworm Dipterous leafminers Salt-marsh caterpillar	20	
	Beet armyworm Lygus bugs	20 to 30	
Tomatoes	Serpentine leafminers Tomato hornworms Dipterous leafminers	20	Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 21 days of harvest.

7-97

DIRECTIONS FOR USE (Continued)

RATE/ACRE IN OZ OF DYLOX 80% SP	POUNDS OF DYLOX 80% SP TO TREAT:		
	5 ACRES	10 ACRES	15 ACRES
5	1-1/2	3-1/8	4-2/3
7-1/2	2-1/3	4-2/3	7
8	2-1/2	5	7-1/2
10	3-1/8	6-1/4	9-3/8
16	5	10	15
20	6-1/4	12-1/2	18-3/4
30	9-3/8	18-3/4	28-1/8

NOTE: When using a more convenient whole number or fraction of pounds of formulated material, do not exceed maximum registered rate.

USE IN CHEMIGATION SYSTEMS ON TURF ONLY

Apply DYLOX 80 Turf and Ornamental Insecticide through solid set irrigation systems. Do not apply this product through any other type of irrigation system.

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the areas intended for treatment.

Crop injury, or lack of effectiveness, can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

For control of white grubs: Pre-mix the required amount of DYLOX 80 Turf and Ornamental insecticide as determined under "Recommended Applications," in sufficient water to uniformly inject the entire mixture into the irrigation system using a positive pressure pumping system. The injection should be timed so that 1/4 to 1/2 inches of irrigation will be applied after the end of the injection period. Continuous agitation of the mixture in the holding tank is required.

For control of sod webworms and cutworms: Pre-mix the required amount of DYLOX 80 Turf and Ornamental Insecticide as determined under "Recommended Applications," in sufficient water to uniformly inject the entire mixture into the irrigation system using a positive pressure pumping system. The injection should be made during the last 5 minutes of the irrigation cycle. Continuous agitation of the mixture in the holding tank is required.

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RECOMMENDED APPLICATIONS			
CROP	INSECT	Oz DYLOX 80 Turf & Ornamental	REMARKS
ORNAMENTALS Flowers, Shrubs & Trees	Nantucket pine tip moth Zimmerman pine moth	20	Mix specified dosage in 100 gallons of water and spray plants until they are thoroughly wet. Repeat as necessary. CAUTION: Phytotoxicity has occurred on certain varieties of carnations and zinnias. When large plantings of these flowers are to be sprayed for the first time, treat only a few plants and observe for 4 to 5 days before spraying the entire planting. Injury from spray droplets may occur on leaves of certain trees.
	Armyworms Bagworms Climbing cutworms Dipterous leaf miners Lygus bugs Stink bugs Tarnished plant bug Tobacco budworm Webworms	20 to 30	
Narcissus	Narcissus bulb fly	20	Apply specified dosage in 100 gallons of water as a drench per 1,000 feet of row. Direct stream to base of plants at beginning of adult fly activity (early May to June). Repeat treatments annually.
Lawns & Turf	Cutworms Sod webworms (lawn moths)	2-1/2 to 3-3/4	Mix specified dosage (approximately 1/3 to 1/2 cupful) of DYLOX 80 Turf & Ornamental Insecticide in 15 to 30 gallons of water and apply uniformly to 1,000 sq ft of lawn or turf area by means of a watering can, compressed air sprayer, any commercial power sprayer, or through sprinkler irrigation systems. (See chemigation directions). For best results, mow the lawn and rake dead grass from damaged spots. Water the lawn and allow grass to dry before spraying. For sod webworm and cutworm control do not irrigate following application. Three applications at monthly intervals may be required for maximum control. In most areas, the first of these applications should be made in May or June.
	White grubs	3-3/4	For white grub control, thoroughly irrigate following application. Consult your State Agricultural Experiment Station or State Extension Service Specialists for more specific information regarding timing of applications. Do not use DYLOX 80 Turf and Ornamental Insecticide in hose proportioned sprayers. NOTE: Do not use treated area or clippings from treated areas for feed or forage.

SURFACE SPRAY FOR FLY CONTROL

For fly control in and around farm buildings: Mix 5 pounds of DYLOX 80 in 40 gallons of water (equivalent to 5 level tablespoonfuls per gallon). Thoroughly wet all areas to be treated by spraying 1 gallon per 500 square feet of surface area or to the point of run-off. Apply to floors, walls, ceiling, around windows, doors, and other areas where flies congregate. Also spray stock pens

(after removal of animals), garbage areas, and other locations where refuse has collected. Repeat applications every 1 to 2 weeks or as fly populations increase. For longer residual control, add 1 pound of sugar to each gallon of spray solution.

DIRECTIONS FOR USE (Continued)

RESTRICTIONS (SURFACE SPRAY)

Remove animals before spraying barn. Allow spray to dry before re-stocking facility. Do not treat areas such as drinking cups, mangers, or troughs where livestock feed.

Direct application to walls, floors, or previously treated with lime, whitewash, or other materials may be ineffective. Do not contaminate feedstuffs, feed handling equipment, or milk handling equipment.

RESTRICTIONS

Do not use on other crops used for food or forage. Use only according to label directions. Application at rates above those shown may result in illegal crop residues. Do not treat food crops grown in the greenhouse.

DO NOT ALLOW DYLOX SPRAY TO DRIFT ONTO SORGHUM. TO DO SO MAY CAUSE BURNING OF THE SORGHUM OR MILO.

Keep children and pets off treated areas until spray deposit has dried.

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. Do not re-enter treated fields within 24 hours unless protective clothing is worn. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

(The following may appear on supplemental labeling accompanying the product): 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, warnings 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: **WARNING**, area treated with **DYLOX 80% Soluble Powder** on date (date of application). Do not re-enter treated fields within 24 hours unless protective clothing is worn. If on skin, remove contaminated clothing and wash skin with plenty of soap and water. If eyes are contaminated, flush with plenty of water. If swallowed, vomiting should be induced (see Precautionary Statements on label).

STORAGE AND DISPOSAL

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture 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 carton into application equipment. Then dispose of empty carton 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.

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