

200-1-1177 1/8

ACCEPTED

JUN 29 1987

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 2548-74

00050 **DETIAPHOS ROTOX MP LABEL -- FRONT PANEL**

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00200 **RESTRICTED USE PESTICIDE**
00250 **DUE TO ACUTE INHALATION TOXICITY OF HIGHLY**
00300 **TOXIC HYDROGEN PHOSPHIDE (PHOSPHINE, PH₃) GAS**

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00400
00450 For retail sale to and use only by certified applicators for
00500 those uses covered by the applicator's certification or persons
00550 trained in accordance with the accompanying product manual working
00600 under the direct supervision and in the physical presence of the
00650 certified applicator. Physical presence means on site or on the
00700 premises. Read and follow the label and the Research Products
00750 Company product manual which contains complete instructions for
00800 the safe use of this pesticide.

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00950 **Detiaphos(R) ROTOX(R) MP**

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01100 **Active Ingredient: Magnesium Phosphide.....34%**
01150 **Inert Ingredients:.....66%**
01200 **TOTAL.....100%**

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01300 **KEEP OUT OF REACH OF CHILDREN**

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01400 **DANGER/PELIGRO-POISON**

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01500 **PRECAUCION AL USUARIO: Si usted no lee ingles, no use este**
01550 **producto hasta que la etiqueta se le haya sido explicado**
01600 **ampliamente.**

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01700 **STATEMENT OF PRACTICAL TREATMENT**

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01800 Symptoms of overexposure to hydrogen phosphide are headache,
01850 dizziness, nausea, difficult breathing, vomiting and diarrhea.
01900 In all cases of overexposure get medical attention immediately.
01950 Take victim to the doctor or emergency treatment facility.....

02000
02050 **IF GAS OR DUST FROM PELLETS IS INHALED:** Get exposed person to
02100 fresh air. Keep warm and make sure person can breathe freely.
02150 If breathing has stopped, give artificial respiration by
02200 mouth-to-mouth or other means of resuscitation. Do not give
02250 anything by mouth to an unconscious person.

02300
02350 **IF THE PELLETS OR THEIR DUST ARE SWALLOWED:** Drink or administer

02400 one or two glasses of water and induce vomiting by touching back
 02500 of throat with finger, or if available, administer syrup of
 02550 ipecac. Do not give anything by mouth if victim is unconscious
 02600 or not alert.

02650
 02700 IF PELLETS OR THEIR DUST GET ON SKIN OR CLOTHING: Brush or
 02750 shake material off clothes and shoes in well ventilated area.
 02800 Allow clothes to aerate in a ventilated area prior to
 02850 laundering. Do not leave contaminated clothing in occupied
 02900 and/or confined areas such as automobiles, vans, motel rooms,
 02950 homes, etc. Wash contaminated skin thoroughly with soap and
 03000 water.

03050
 03100 IF DUST FROM THE PELLETS GETS IN EYES: Flush with plenty of
 03150 water. Get medical attention.

03200
 03250 See side panels for additional precautionary statements.

03300
 03350 Manufactured by: Detia Freyberg, GMBH
 03400 P. O. Box 10
 03450 6947 Laudendach
 03500 F.R. of Germany

03550
 03600
 03650 Distributed by: Research Products Company
 03700 Div. of McShares, Inc.
 03750 P. O. Box 1460
 03800 Salina, KS 67402-1460

03850
 03900
 03950 EPA Establishment No. 33982WG01 Net Contents:
 04000 EPA Registration No. 2548-74 Net Contents:

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LEFT PANEL

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN
 DANGER/POISON

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 04500
 04550 Magnesium phosphide in pellets or their dust can be fatal if
 04600 swallowed. Do not get in eyes, in nose, on skin or on clothing.
 04650 Do not eat, drink or smoke while handling magnesium phosphide
 04700 fumigants. When the container is opened Detiaphos(R) ROTOX(R)
 04750 MP will begin to release hydrogen phosphide (phosphine) which is
 04800 an extremely toxic gas. Contact with water, acids and some
 04850 other liquids will accelerate this reaction. Pure hydrogen
 04900 phosphide gas is odorless, the odor is due to a contaminant.
 04950 Since an odor may not be detected under certain circumstances,
 05000 the absence of a garlic odor does not mean that hydrogen
 05050 phosphide gas is absent. Observe proper application and

05100 disposal procedures specified elsewhere in the labeling to
05150 prevent overexposure.

05200 FREQUENT EXPOSURE TO LOW CONCENTRATIONS ABOVE PERMISSIBLE LEVELS
05250 OVER A PERIOD OF DAYS OR WEEKS MAY CAUSE POISONING.
05300
05350

05400 NOTE TO PHYSICIAN
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05500 Magnesium phosphide in pellets or their dust reacts with
05550 moisture from the air, water, acids, and many other liquids to
05600 release hydrogen phosphide (phosphine) gas. Mild exposure by
05650 inhalation causes malaise (indefinite feeling of sickness),
05700 ringing of ears, fatigue, nausea and pressure in chest which are
05750 relieved by removal to fresh air. Moderate poisoning causes
05800 weakness, vomiting, epigastric pain (pain just above the
05850 stomach), chest pain, diarrhea and dyspnea (difficulty in
05900 breathing). Symptoms of severe poisoning may occur within a few
05950 hours or up to several days, resulting in pulmonary edema (fluid
06000 in lungs) and may lead to dizziness, cyanosis (blue or purple
06050 skin color), unconsciousness and death.

06100 In sufficient quantity, hydrogen phosphide affects the liver,
06150 kidneys, lungs, nervous system and circulatory system.
06200 Inhalation can cause lung edema (fluid in lungs) and hyperemia
06250 (excess of blood in a body part), small perivascular brain
06300 hemorrhages and brain edema (fluid in brain). Ingestion can
06350 cause lung and brain symptoms, but damage to the viscera (body
06400 cavity organs) is more common. Hydrogen phosphide poisoning may
06450 result in (1) pulmonary edema, (2) liver elevated serum GOT, LDH
06500 and alkaline phosphatase, reduced prothrombin, hemorrhage and
06550 jaundice (yellow skin color) and (3) kidney hematuria (blood in
06600 urine) and anuria (abnormal or lack of urination). Pathology is
06650 characteristic of hypoxia (oxygen deficiency in body tissue).
06700 Treatment is symptomatic.
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RIGHT PANEL

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DIRECTIONS FOR USE

07150 It is a violation of federal law to use this product in a
07200 manner inconsistent with its labeling.
07250

07300 The "Detiaphos(R) ROTOX(R) M1 and Detiaphos(R) ROTOX(R) M2
07350 Instruction Booklet" is a part of labeling. Refer to it for
07400 application procedures and other information necessary to
07450 properly use Detiaphos(R) ROTOX(R).
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THIS PRODUCT IS ACCOMPANIED BY THE LABELING LISTED ABOVE. READ
AND UNDERSTAND THE ENTIRE LABELING. ALL PARTS OF THE LABELING
ARE EQUALLY IMPORTANT FOR SAFE AND EFFECTIVE USE OF THIS

07800 PRODUCT. CALL RESEARCH PRODUCTS COMPANY OR EPA IF YOU HAVE ANY
 07850 QUESTIONS OR DO NOT UNDERSTAND ANY PART OF THIS LABELING.
 07900

07950
 08000 STORAGE AND DISPOSAL

08050
 08100 STORAGE

08150
 08200 Flasks should be stored in a dry, well ventilated area, away
 08250 from heat and under lock and key. Post as a pesticide storage
 08300 area. Do not contaminate water, food or feed by storing
 08350 pesticides in the same areas used to store these commodities.
 08400

08450 Do not store in buildings where humans or domestic animals
 08500 reside. Refer to the "Detiaphos(R) ROTOX(R) MT and
 08550 Detiaphos(R) ROTOX(R) MP Instruction Booklet" for additional
 08600 storage instructions.

08650
 08700 DISPOSAL OF UNREACTED OR PARTIALLY REACTED PELLETS (From spills,
 08750 leaking flasks or other sources)

08800
 08850 Unreacted or partially reacted Detiaphos(R) ROTOX(R) pellets are
 08900 acutely hazardous. Improper disposal of this product is a
 08950 violation of federal law.
 09000

09050 If this product cannot be disposed of by ordinary use or
 09100 according to labeling instructions, contact your state pesticide
 09150 or environmental control agency or the hazardous waste
 09200 representative at the nearest EPA regional office for guidance.
 09250 Do not contaminate water by disposal.
 09300

09350 Reacted pellets are not hazardous. For complete disposal, spill
 09400 and leak procedures refer to the booklet "Detiaphos(R) ROTOX(R)
 09450 MT and Detiaphos(R) ROTOX(R) MP Instruction Booklet."
 (300

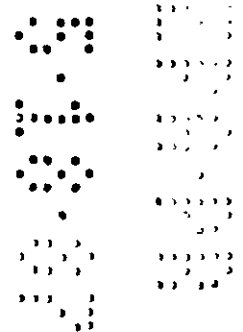
09550
 09600 DISPOSAL OF EMPTY FLASKS

09650
 09700 METHOD ONE: Triple rinse flasks and stoppers with water. Then
 09750 offer for recycling or reconditioning, or puncture and dispose
 09800 of them in a sanitary landfill or other approved site or by
 09850 other procedures approved by state and local authorities. . . .
 09900 Dispose of rinsate in a sanitary landfill or by other approved
 09950 procedures.

10000
 10050 METHOD TWO: Remove lids and place empty flasks outdoors or in
 10100 structure being fumigated until residue in flasks is reacted.
 10150 Puncture and dispose of them in a sanitary landfill or other
 10200 approved site or by other procedures approved by state and local
 10300 authorities.

10350
 10400 GENERAL
 10450

10500 Consult federal, state and local disposal authorities for
10550 approved procedures other than those given above. Approved
10600 procedures vary for different types of generators.
10650
10700 *If in doubt concerning whether the dust is reacted and/or
10750 concerning proper disposal techniques contact Research Products
10800 Company.



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04200 LEFT PANEL

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04400 KEEP OUT OF REACH OF CHILDREN
04450 DANGER/POISON
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05550 Instruction Booklet" for this section.

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05650 RIGHT PANEL

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