

ACCEPTED

JUN 29 1987

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under 2548-70
EPA Reg. No.

DETIA ROTOX AP LABEL -- FRONT PANEL

RESTRICTED USE PESTICIDE

DUE TO ACUTE INHALATION TOXICITY OF HIGHLY
TOXIC HYDROGEN PHOSPHIDE (PHOSPHINE, PH₃) GAS

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

Detia(R) ROTOX(R) AP

Active Ingredient: Aluminum Phosphide.....57X
Inert Ingredients:.....43X
TOTAL.....100X

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO-POISON

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

STATEMENT OF PRACTICAL TREATMENT

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

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

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 Laudenbach
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. 2548-70 Net Contents:
04050

04100
04150

04200 LEFT PANEL

04250

04300 HAZARDS TO HUMANS AND DOMESTIC ANIMALS
04350

04400 KEEP OUT OF REACH OF CHILDREN
04450 DANGER/POISON
04500

04550 Aluminum 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 aluminum phosphide
04700 fumigants. When the container is opened Detia(R) ROTOX(R) AP
04750 will begin to release hydrogen phosphide (phosphine) which is an
04800 extremely toxic gas. Contact with water, acids and some other
04850 liquids will accelerate this reaction. Pure hydrogen phosphide
04900 gas is odorless; the odor is due to a contaminant. Since an
04950 odor may not be detected under certain circumstances, the
05000 absence of a garlic odor does not mean that hydrogen phosphide
05050 gas is absent. Observe proper application and disposal

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

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

05350
05400 NOTE TO PHYSICIAN

05450
05500 Aluminum phosphide in pellets or their dust reacts with moisture
05550 from the air, water, acids, and many other liquids to release
05600 hydrogen phosphide (phosphine) gas. Mild exposure by inhalation
05650 causes malaise (indefinite feeling of sickness), ringing of
05700 ears, fatigue, nausea and pressure in chest which are relieved
05750 by removal to fresh air. Moderate poisoning causes weakness,
05800 vomiting, epigastric pain (pain just above the stomach), chest
05850 pain, diarrhea and dyspnea (difficulty in breathing). Symptoms
05900 of severe poisoning may occur within a few hours or up to
750 several days, resulting in pulmonary edema (fluid in lungs) and
300 may lead to dizziness, cyanosis (blue or purple skin color),
06050 unconsciousness and death.

06100
06150 In sufficient quantity, hydrogen phosphide affects the liver,
06200 kidneys, lungs, nervous system and circulatory system.
06250 Inhalation can cause lung edema (fluid in lungs) and hyperemia
06300 (excess of blood in a body part), small perivascular brain
06350 hemorrhages and brain edema (fluid in brain). Ingestion can
06400 cause lung and brain symptoms, but damage to the viscera (body
06450 cavity organs) is more common. Hydrogen phosphide poisoning may
06500 result in (1) pulmonary edema, (2) liver elevated serum GOT, LDH
06550 and alkaline phosphatase, reduced prothrombin, hemorrhage and
06600 jaundice (yellow skin color) and (3) kidney hematuria (blood in
06650 urine) and anuria (abnormal or lack of urination). Pathology is
06700 characteristic of hypoxia (oxygen deficiency in body tissue).
6750 Treatment is symptomatic.

800
06850

06900
06950

RIGHT PANEL

07000
07050

DIRECTIONS FOR USE

07100
07150

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

07200
07250

07300
07350

The "Detia(R) ROTOX(R) AT and Detia(R) ROTOX(R) AF Instruction
Booklet" is a part of labeling. Refer to it for application
procedures and other information necessary to properly use
Detia(R) ROTOX(R).

07400
07450

07500
07550

07600
07700

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

07750

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 "Detia(R) ROTOX(R) AT and Detia(R)
08550 ROTOX(R) AP Instruction Booklet" for additional storage
08600 instructions.

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

08800
08850 Unreacted or partially reacted Detia(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 "Detia(R) ROTOX(R) AT
09450 and Detia(R) ROTOX(R) AP Instruction Booklet."

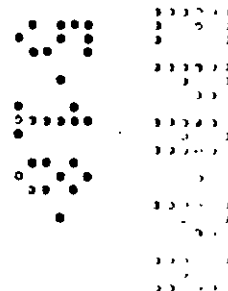
(9500
350
09600 DISPOSAL OF EMPTY FLASKS

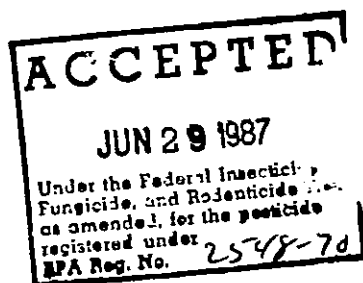
09650
09700 METHOD ONE: Triple rinse flasks and stoppers with water. Then
09750 offer for recycling or reconditioning, or puncture and dispose
09800 of them in a sanitary landfill or other approved site or by
09850 other procedures approved by state and local authorities.
09900 Dispose of rinsate in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

10000
10050 METHOD TWO: Remove lids and place empty flasks outdoors on a
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.





00050 DETIA ROTOX AP (small label) -- FRONT PANEL

00100
00150
00200 RESTRICTED USE PESTICIDE
00250 DUE TO ACUTE INHALATION TOXICITY OF HIGHLY
00300 TOXIC HYDROGEN PHOSPHIDE (PHOSPHINE, PH₃) GAS
00350
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.
00850

00900
00950 Detia(R) ROTOX(R) AP
01000

01050
01100 Active Ingredient: Aluminum Phosphide.....57%
01150 Inert Ingredients:.....43%
01200 TOTAL.....100%
01250

01300 KEEP OUT OF REACH OF CHILDREN
01350

01400 DANGER/PELIGRO-POISON
01450

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.
01650

01700 STATEMENT OF PRACTICAL TREATMENT

01750
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.
02350

02400 IF THE PELLETS OR THEIR DUST ARE SWALLOWED: Drink or administer

02450 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 panel for additional precautionary statements.

03300
03350 Manufactured by: Detia Freyberg, GMBH
03400 P. O. Box 10
03450 6947 Laudenbach
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. 33982W601 Net Contents:
04000 EPA Registration No. 2548-70 Net Contents:
04050

04100
04150
04200 LEFT PANEL
04250
04300 HAZARDS TO HUMANS AND DOMESTIC ANIMALS
04350

04400 KEEP OUT OF REACH OF CHILDREN
04450 DANGER/POISON
04500

04550 Aluminum 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 aluminum phosphide;
04700 fumigants. When the container is opened Detia(R) ROTOX(R) AP
04750 will begin to release hydrogen phosphide (phosphine) which is
04800 extremely toxic gas. Contact with water, acids and some other
04850 liquids will accelerate this reaction. Pure hydrogen phosphide
04900 gas is odorless; the odor is due to a contaminant. Since an
04950 odor may not be detected under certain circumstances, the
05000 absence of a garlic odor does not mean that hydrogen phosphide
05050 gas is absent. Observe proper application and disposal

05100 procedures specified elsewhere in the labeling to prevent
05150 overexposure.
05200
05250 FREQUENT EXPOSURE TO LOW CONCENTRATIONS ABOVE PERMISSIBLE LEVELS
05300 OVER A PERIOD OF DAYS OR WEEKS MAY CAUSE POISONING.
05350

05400 NOTE TO PHYSICIAN
05450

05500 Refer to "Detia(R) ROTOX(R) AT and Detia(R) ROTOX(R) AP
05550 Instruction Booklet" for this section.
05600

05650 RIGHT PANEL
05700

05750 DIRECTIONS FOR USE
05800

05850 It is a violation of federal law to use this product in a
05900 manner inconsistent with its labeling.
05950

06000 The "Detia(R) ROTOX(R) AT and Detia(R) ROTOX(R) AP Instruction
06050 Booklet" is a part of labeling. Refer to it for application
06100 procedures and other information necessary to properly use
06150 Detia(R) ROTOX(R).
06250

06300
06350 THIS PRODUCT IS ACCOMPANIED BY THE LABELING LISTED ABOVE. READ
06400 AND UNDERSTAND THE ENTIRE LABELING. ALL PARTS OF THE LABELING
06450 ARE EQUALLY IMPORTANT FOR SAFE AND EFFECTIVE USE OF THIS
06500 PRODUCT. CALL RESEARCH PRODUCTS COMPANY OR EPA IF YOU HAVE ANY
06550 QUESTIONS OR DO NOT UNDERSTAND ANY PART OF THIS LABELING.
06600

06650
06700 STORAGE AND DISPOSAL
06750

06800 Refer to "Detia(R) ROTOX(R) AT and Detia(R) ROTOX(R) AP
06850 Instruction Booklet" for this section.

