

ACCEPTED

JUN 29 1987

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 2548-69

## DETIA ROTOX AT LABEL -- FRONT PANEL

## RESTRICTED USE PESTICIDE

DUE TO ACUTE INHALATION TOXICITY OF HIGHLY  
TOXIC HYDROGEN PHOSPHIDE (PHOSPHINE, PH<sub>3</sub>) 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) AT

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

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 TABLETS 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 TABLETS 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 TABLETS 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 TABLETS 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. 2548-69 Net Contents:  
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04100  
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LEFT PANEL

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN  
DANGER/POISON

04500  
04550 Aluminum phosphide in tablets 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) ALK  
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 the  
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 tablets 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  
 05950 several days, resulting in pulmonary edema (fluid in lungs) and  
 06000 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).  
 06750 Treatment is symptomatic.

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 07000

#### RIGHT PANEL

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#### DIRECTIONS FOR USE

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 07200

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

07250  
 07300

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

07700  
 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.  
( 550

08700 DISPOSAL OF UNREACTED OR PARTIALLY REACTED TABLETS (From spills,  
08750 leaking flasks or other sources)  
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08850 Unreacted or partially reacted Detia(R) ROTOX(R) tablets 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 tablets are not hazardous. For complete disposal, spill  
09400 and leak procedures refer to the booklet "Detia(R) ROTOX(R) AT  
( 7450 and Detia(R) ROTOX(R) AP Instruction Booklet."  
09500

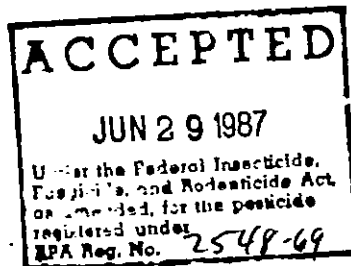
09550  
09600 DISPOSAL OF EMPTY FLASKS  
09650

09700 METHOD ONE: Triple rinse flasks and lids 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.  
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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.  
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10400 GENERAL  
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00050 DETIA ROTOX AT (small label) -- FRONT PANEL

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02600 or not alert.

02650 IF TABLETS OR THEIR DUST GET ON SKIN OR CLOTHING: Brush or  
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02800 laundering. Do not leave contaminated clothing in occupied  
02850 and/or confined areas such as automobiles, vans, motel rooms,  
02900 homes, etc. Wash contaminated skin thoroughly with soap and  
02950 water.  
03000

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

03200 See side panel for additional precautionary statements.  
03250

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03350 P. O. Box 10  
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03600 Div. of McShores, Inc.  
03650 P. O. Box 1460  
03700 Salina, KS 67402-1460  
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03800

03850 EPA Establishment No. 33982WB01 Net Contents:  
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03950  
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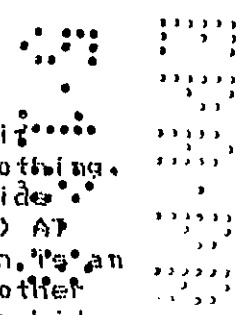
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LEFT PANEL

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN  
DANGER/POISON

Aluminum phosphide in tablets or their dust can be fatal if  
swallowed. Do not get in eyes, in nose, on skin or on clothing.  
Do not eat, drink or smoke while handling aluminum phosphide  
fumigants. When the container is opened Detia(R) ROTOX(R) A7  
will begin to release hydrogen phosphide (phosphine) which is an  
extremely toxic gas. Contact with water, acids and some other  
liquids will accelerate this reaction. Pure hydrogen phosphide  
gas is odorless; the odor is due to a contaminant. Since an  
odor may not be detected under certain circumstances, the  
absence of a garlic odor does not mean that hydrogen phosphide  
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

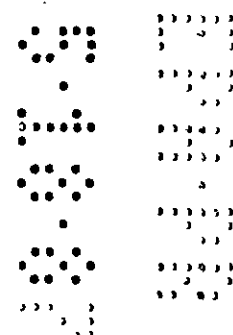
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Detia(R) ROTOX(R) AT

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04100  
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04200 LEFT PANEL

04250 HAZARDS TO HUMANS AND DOMESTIC ANIMALS

04300  
04350  
04400 KEEP OUT OF REACH OF CHILDREN  
04450 DANGER/POISON

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04700 fumigants. When the container is opened Detia(R) ROTCX(R).AT.  
04750 will begin to release hydrogen phosphide (phosphine) which is an  
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 05350  
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 06550 and alkaline phosphatase, reduced prothrombin, hemorrhage and  
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 06650 urine) and anuria (abnormal or lack of urination). Pathology is  
 06700 characteristic of hypoxia (oxygen deficiency in body tissue).  
 06750 Treatment is symptomatic.

06800  
 06850  
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 06950

# RIGHT PANEL

## DIRECTIONS FOR USE

07100  
 07150 It is a violation of federal law to use this product in a  
 07200 manner inconsistent with its labeling.  
 07250  
 07300 The "Detia(R) ROTOX(R) AT and Detia(R) ROTOX(R) AP Instruction  
 07350 Booklet" is a part of labeling. Refer to it for application  
 07400 procedures and other information necessary to properly use  
 07450 Detia(R) ROTOX(R).

07500  
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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.  
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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.

( 550  
08700 DISPOSAL OF UNREACTED OR PARTIALLY REACTED TABLETS (From spills,  
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08800

08850 Unreacted or partially reacted Detia(R) ROTOX(R) tablets 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 tablets are not hazardous. For complete disposal, spill  
09400 and leak procedures refer to the booklet "Detia(R) ROTOX(R) AT  
( 7450 and Detia(R) ROTOX(R) AP Instruction Booklet."  
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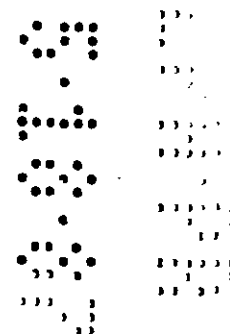
09550  
09600 DISPOSAL OF EMPTY FLASKS  
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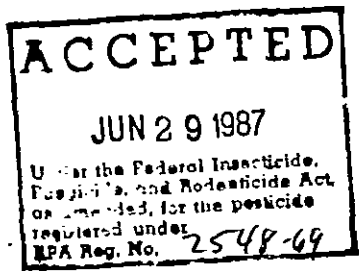
09700 METHOD ONE: Triple rinse flasks and lids with water. Then  
09750 offer for recycling or reconditioning, or puncture and dispose  
09800 of them in a sanitary landfill or other approved site or by  
09850 other procedures approved by state and local authorities.  
09900 Dispose of rinsate in a 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  
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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.  
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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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DETIA ROTOX AT (small label) -- FRONT PANEL

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Inert Ingredients:.....43%  
TOTAL.....100%

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 TABLETS IS INHALED: Get exposed person 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 TABLETS 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 TABLETS 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 TABLETS 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 Laudendach  
 03500 F.R. of Germany

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

03850  
 03900  
 03950 EPA Establishment No. 33982WB01 Net Contents:  
 04000 EPA Registration No. 2548-69 Net Contents:

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#### LEFT PANEL

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN  
 DANGER/POISON

Aluminum phosphide in tablets or their dust can be fatal if  
 swallowed. Do not get in eyes, in nose, on skin or on clothing.  
 Do not eat, drink or smoke while handling aluminum phosphide  
 fumigants. When the container is opened Detia(R) ROTOX(R) A  
 will begin to release hydrogen phosphide (phosphine) which is an  
 extremely toxic gas. Contact with water, acids and some other  
 liquids will accelerate this reaction. Pure hydrogen phosphide  
 gas is odorless; the odor is due to a contaminant. Since an  
 odor may not be detected under certain circumstances, the  
 absence of a garlic odor does not mean that hydrogen phosphide  
 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).  
06200

06250  
06300 THIS PRODUCT IS ACCOMPANIED BY THE LABELING LISTED ABOVE. READ  
06350 AND UNDERSTAND THE ENTIRE LABELING. ALL PARTS OF THE LABELING  
06400 ARE EQUALLY IMPORTANT FOR SAFE AND EFFECTIVE USE OF THIS  
06450 PRODUCT. CALL RESEARCH PRODUCTS COMPANY OR EPA IF YOU HAVE ANY  
06500 QUESTIONS OR DO NOT UNDERSTAND ANY PART OF THIS LABELING.  
06550  
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.

