

BEST DOCUMENT AVAILABLE



POISONOUS IF SWALLOWED

This product can kill you if swallowed even in small amounts. spray mist or dust may be fatal if swallowed.



POISONOUS BY SKIN CONTACT

Poisonous if touched by hands or spilled or splashed on skin, in eyes or on clothing (liquid goes through clothes.)



POISONOUS IF BREATHED

Breathing vapors, spray mist or dust may be fatal

POISONOUS TO FISH AND WILDLIFE

This product is toxic to fish, shrimp, crabs, birds and other wildlife. Birds and other wildlife in treated areas may be killed. Keep out of lakes, streams or ponds. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.

DANGER

DANGER: Poisonous if swallowed, inhaled or absorbed through skin. Rapidly absorbed through skin.

POISONING SYMPTOMS: Nausea, blurred vision, weakness, nausea, cramps, diarrhea, discomfort in chest.

ANTIDOTE: Atropine is the specific antidote. Obtain emergency supply of atropine 1-100 grain tablets from your physician. Keep on hand.

CALL A PHYSICIAN IMMEDIATELY if persons handling or working with Parathion develop poisoning symptoms.

DO NOT USE, POUR, SPILL, OR STORE NEAR HEAT OR OPEN FLAME

FIRST AID TREATMENT

Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to parathion and describe his condition.

If breathing has stopped start artificial respiration immediately and maintain until doctor sees victim.

If swallowed and victim is awake (conscious) make him vomit quickly. Induce vomiting by sticking finger down throat or by giving soap or strong salt water to drink. Repeat until vomit is clear. Never give anything by mouth to an unconscious person. Have victim lie down and keep quiet. See doctor immediately.

In case of contact immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. See doctor immediately.

POST TREATED AREA

Consult your State Agricultural Extension Service or Experiment Station regarding posting treated areas.

FOR ALL EMPTY CONTAINERS

DO NOT re-use the container. Completely empty the contents and bury unused chemical at least 18 inches deep in an isolated location away from water supplies. **GLASS CONTAINERS** Break the container and bury the pieces at least 18 inches deep in a isolated location away from water supplies.

METAL CONTAINERS:

1-GALLON CANS: Pour 1 pt of water into empty can and add 1 tablespoonful household detergent. Rotate can carefully to wet all inner surfaces with the solution. Bury rinse solution at least 18 inches deep in an isolated location away from water supplies. Punch holes in top and bottom of cans, crush can, and bury deeply in an isolated location.

5-GALLON 30-GALLON and 55-GALLON DRUMS: Pour the following mixture into empty containers:

5-GALLON DRUMS: 2 qts water, 1/2 cup caustic soda (household lye), 2 tablespoons of detergent.

30-GALLON DRUMS: 3 gallons water, 1 lb caustic soda (household lye), 1/2 cup detergent.

55-GALLON DRUMS: 5 gallons water, 2 lb caustic soda (household lye), 1 cup detergent.

Rotate container until all inner surfaces are thoroughly wet. Bury the rinse solution at least 18 inches deep in an isolated area away from water supplies.

CAUTION: Handle caustic soda (household lye) with extreme care. Do not get on skin, in eyes, or on clothing. Read and carefully follow the precautions on package. Punch holes in top and bottom of container, crush container. Bury deeply in an isolated area.

IF THE ABOVE WASH METHOD CANNOT BE USED

Punch holes in TOP of container and burn in hot fire until all paint has been completely burned off container. Extreme care should be exercised to insure that containers are completely empty and that pieces are well away from smoke and fumes. Do not attempt to burn more than 5 containers at a time.

NOTE TO PHYSICIAN

ANTIDOTE: Administer atropine sulfate in large doses TWO to FOUR mg intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of over-poisoning appear. PRAL chlorate is also antidotal and may be given in conjunction with atropine. **DO NOT GIVE MORPHINE OR TRANQUILIZERS.** Parathion is a strong cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. At first sign of pulmonary edema the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and fatal relapses have been reported after initial improvement. **VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.** Treat symptomatically.

Toxaphene produces central nervous system stimulation which ordinarily responds to the barbituric acid derivatives but this drug should only be used if complete or organization fails to relieve symptoms.

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RESTRICTED USE PESTICIDE

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION

STOP - READ LABEL BEFORE USE

POISON
See Side Panels
for Antidote &
Precautions



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Keep Out
Reach of
Childrer



PARATHION 4
Emulsifiable Liquid - An Agricultural Insectic

(Contains 4 lb Parathion per gallon)

ACTIVE INGREDIENT

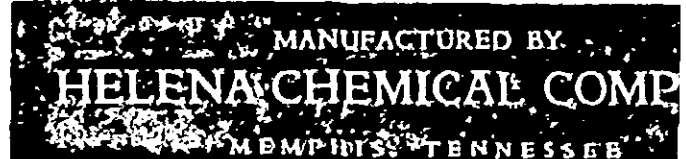
Parathion O, O-diethyl O-p-nitrophenyl phosphorothioate 46.2%

INERT INGREDIENTS

TOTAL 53.8%

TOTAL 100.0%

DO NOT RE-USE THIS CONTAINER FOR ANY OTHER PURPOSE



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STOP - READ LABEL BEFORE USING!

POISON

See Side Panels for Antidote & Precautions



DANGER

Keep Out of Reach of Children



PARATHION 4-E

Emulsifiable Liquid - An Agricultural Insecticide

(Contains 4 lb Parathion per gallon)

ACTIVE INGREDIENT

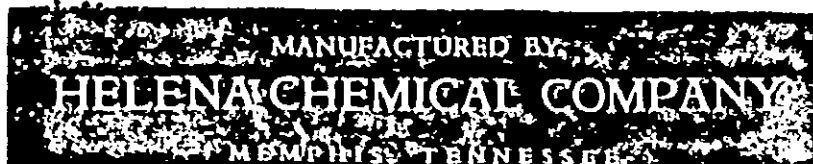
Parathion (O, O-diethyl O-p-nitrophenyl phosphorothioate) 46.2%

INERT INGREDIENTS

TOTAL 53.8%

TOTAL 100.0%

DO NOT REUSE THIS CONTAINER FOR ANY PURPOSE



RECOMMENDATIONS

Application should be made only by experienced personnel using approved protective equipment.

For Air Equipment (except on Pecans) - Use with 1 to 5 gallons of water per acre consistent with crop growth and good coverage.

For Ground Equipment (except on Pecans) - Use with 10 to 25 gallons of water per acre consistent with crop growth and good coverage.

BEANS Aphids Armyworm, Leafhoppers Leafminers, Leaf-rollers Mexican bean beetle - 3/5 to 1 pint per acre in sufficient water for thorough coverage. Limbean pod borer, Thrips - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Do not apply within 7 days of harvest. Stink bugs - 3/5 to 1 3/5 pint per acre in sufficient water for thorough coverage. Do not apply within 15 days of harvest.

BROCCOLI, BRUSSELS SPROUTS, CAULIFLOWER Aphids, Armyworm Thrips - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Leafminers - 1 pint per acre in sufficient water for thorough coverage. Cabbage looper - 1 to 2 pints per acre in sufficient water for thorough coverage. For control of Aphids Armyworm Leafminers and Thrips, do not apply within 7 days of harvest. For control of Cabbage looper, do not apply within 21 days of harvest.

CABBAGE, KALE, MUSTARD GREENS, TURNIPS Aphids, Armyworm Thrips - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Leafminers - 1 pint per acre in sufficient water for thorough coverage. Cabbage looper - 1 to 2 pints per acre in sufficient water for thorough coverage. For control of Aphids Armyworm Leafminers, Cabbage looper (except on Cabbage) and Thrips do not apply within 10 days of harvest. For Cabbage looper on Cabbage do not apply within 21 days of harvest.

COTTON Cotton aphid Cotton leafworm Fleahoppers Spider mites - 1/2 to 1 pint per acre in sufficient water for thorough coverage. For Cotton aphid apply when insects appear or honeydew develops. For Spider mites, apply when mites appear or when leaves begin turning yellow to reddish brown. Repeat once or twice at 5 to 7 day intervals. Stink bugs, Cotton leafperforator - 1 to 2 pints per acre in sufficient water for thorough coverage. Workers entering fields within 4 hours after application should wear protective clothing. Do not hand pick or harvest within 7 days of application.

CUCURBITS Cucumbers Squash Melons) Aphids Cucumber Beetle Melonworm Pickleworm - 1/2 to 1 pint per acre in sufficient water for thorough coverage. For control of Melonworm and Pickleworm on Cucumbers and Melons apply at first bloom or when insects appear. Squash bug Rindworms (Cabbage looper) Corn earworm Granulate cutworm Tobacco budworm on watermelons - 1 pint per acre in sufficient water for thorough coverage. For Cucumber and Squash do not apply within 15 days of harvest. For Melons do not apply within 7 days of harvest. Do not apply before sunrise on Cucumbers.

FORAGE CROPS Alfalfa Berley, Clover Oats Vetch Wheat) Aphids Armyworm Blister beetles Grasshoppers - 1/2 to 1 pint per acre in sufficient water for thorough coverage. For control of Spotted alfalfa aphid apply early in spring. Do not apply within 15 days of harvest.

EGGPLANT Aphids Leafminers Thrips - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Spider mites - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Do not apply within 15 days of harvest.

LETTUCE Aphids Banded Cucumber beetles Leafhoppers Lygus bugs - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Do not apply within 7 days of harvest on Head lettuce. 21 days of harvest on Bibb and Leaf lettuce.

OKRA Aphids - 1 pint per acre in sufficient water for thorough coverage. Leafminers - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Stir sufficient water for thorough coverage. Do not apply within 7 days of harvest.

PEANUTS Fall armyworm cornstalk borer - 1 pint per acre in sufficient water for thorough coverage. For Les of plants and soil surface pints per acre in sufficient water for thorough coverage. Corn rootworms (larvae) planting or pegging Incorporate into top 4 inches of soil. Do not apply within 15 days of harvest.

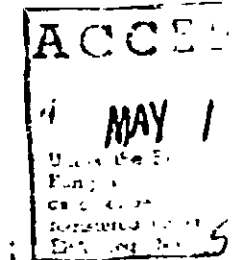
PECANS Aphids - 1/2 to 1 pint per 100 gallons of water. Pecan nut casebearer, Walnut twig girdler - 1/2 to 1 pint per 100 gallons of water. Pecan nut casebearer apply as a brown fruit in 7 days or needed. For Walnut cater when caterpillars appear within 15 days of harvest. Do not feed treated husks to birds.

PEPPER Aphids Leafminer - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Do not apply within 15 days of harvest.

POTATO Aphids Armyworms - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Banded cucumber beetle - 1 pint per acre in sufficient water for thorough coverage. Do not apply within 7 days of harvest.

STRAWBERRIES Flea Beetle - 1 pint per acre in sufficient water for thorough coverage. Do not apply within 7 days of harvest.

TOMATO Aphids Stink bugs - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Do not apply within 7 days of harvest.



POST TREATED AREA

State Agricultural Extension Service or Extension Agent regarding posting treated areas.

FOR ALL EMPTY CONTAINERS

the container. Completely empty the contents and chemical at least 18 inches deep in an area away from water supplies. Break the container and bury the pieces deep in a isolated location away from water supplies.

INSTRUCTIONS

1. Pour 1 pt. of water into empty can and add equal amount of household detergent. Rub on all inner surfaces with the solution. Bury the can at least 18 inches deep in an isolated location away from water supplies. Punch holes in top and bottom of can and bury deeply in an isolated location.

2. 5-GALLON and 55-GALLON DRUMS: Pour the contents into empty containers.

3. 2-GALLON DRUMS: 2 qts water 1/2 cup caustic soda 2 tablespoons of detergent

4. 5-GALLON DRUMS: 3 gallons water 1 lb caustic soda 1/2 cup detergent

5. 55-GALLON DRUMS: 5 gallons water 2 lb caustic soda 1 cup detergent

6. Rinse until all inner surfaces are thoroughly rinsed with solution at least 18 inches deep in an area away from water supplies.

7. Use caustic soda (household lye) with extreme caution. Do not get on skin, in eyes, or on clothing. Read and follow the precautions on package. Punch holes in top of container, crush container. Bury deeply in an isolated location.

THE ABOVE RINSE METHOD CANNOT BE USED

8. Turn top of container and burn in hot fire until all surfaces are completely burned off. Extreme care should be exercised to insure that containers are completely burned and that pieces of metal are well away from water supplies. Do not attempt to burn more than 5 containers at one time.

NOTE TO PHYSICIANS

Parathion is a potent anticholinergic agent. It acts on the central nervous system, producing respiratory depression. At first, signs of poisoning are nervousness, tremors, and profuse sweating. As the patient should be given a large amount of fluid. Symptoms include: continued absorption, respiratory depression, and profuse sweating. At first, signs of poisoning are nervousness, tremors, and profuse sweating. As the patient should be given a large amount of fluid. Symptoms include: continued absorption, respiratory depression, and profuse sweating. At first, signs of poisoning are nervousness, tremors, and profuse sweating. As the patient should be given a large amount of fluid. Symptoms include: continued absorption, respiratory depression, and profuse sweating.

9. Parathion causes central nervous system stimulation. It responds to the barbituric acid derivatives. It should only be used if complete or partial recovery of symptoms.

RECOMMENDATIONS

Application should be made only by experienced personnel using approved protective equipment.

For Air Equipment (except on Peas) - Use with 1 to 5 gallons of water per acre consistent with crop growth and good coverage.

For Ground Equipment (except on Peas) - Use with 10 to 25 gallons of water per acre consistent with crop growth and good coverage.

BEANS: Aphids, Armyworm, Leafhoppers, Leafminers, Leaf-rollers, Mexican bean beetle - 3/5 to 1 pint per acre in sufficient water for thorough coverage. Limbean pod borer, Thrips - 1/4 to 1 pint per acre in sufficient water for thorough coverage. Do not apply within 7 days of harvest. Stink bugs - 3/5 to 1 3/5 pint per acre in sufficient water for thorough coverage. Do not apply within 15 days of harvest.

BROCCOLI, BRUSSELS SPROUTS, CAULIFLOWER: Aphids, Armyworm, Thrips - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Leafminers - 1 pint per acre in sufficient water for thorough coverage. Cabbage looper - 1 to 2 pints per acre in sufficient water for thorough coverage. For control of Aphids, Armyworm, Leafminers, and Thrips, do not apply within 7 days of harvest. For control of Cabbage looper, do not apply within 21 days of harvest.

CABBAGE, KALE, MUSTARD GREENS, TURNIPS: Aphids, Armyworm, Thrips - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Leafminers - 1 pint per acre in sufficient water for thorough coverage. Cabbage looper - 1 to 2 pints per acre in sufficient water for thorough coverage. For control of Aphids, Armyworm, Leafminers, Cabbage looper (except on Cabbage), and Thrips, do not apply within 10 days of harvest. For Cabbage looper on Cabbage, do not apply within 21 days of harvest.

COTTON: Cotton aphid, Cotton leafworm, Fleahoppers, Spider mites - 1/2 to 1 pint per acre in sufficient water for thorough coverage. For Cotton aphid, apply when insects appear or honeydew develops. For Spider mites, apply when mites appear or when leaves begin turning yellow to reddish brown. Repeat once or twice at 5- to 7-day intervals. Stink bugs, Cotton leafperforator - 1 to 2 pints per acre in sufficient water for thorough coverage. Workers entering fields within 24 hours after application should wear protective clothing. Do not hand pick or harvest within 7 days of application.

CURCUBITS (Cucumbers, Squash, Melons): Aphids, Cucumber beetle, Melonworm, Pickleworm - 1/2 to 1 pint per acre in sufficient water for thorough coverage. For control of Melonworm and Pickleworm on Cucumbers and Melons, apply at first bloom or when insects appear. Squash bug, Rindworms (Cabbage looper, Corn earworm, Granulate cutworm, Tobacco budworm) on watermelons - 1 pint per acre in sufficient water for thorough coverage. For Cucumber and Squash, do not apply within 15 days of harvest. For Melons, do not apply within 7 days of harvest. Do not apply before vining on Cucumbers.

FORAGE CROPS (Alfalfa, Barley, Clover, Oats, Vetch, Wheat): Aphids, Armyworm, Blister beetles, Grasshoppers - 1/2 to 1 pint per acre in sufficient water for thorough coverage. For control of Spotted alfalfa aphid, apply early in spring. Do not apply within 15 days of harvest.

EGGPLANT: Aphids, Leafminers, Thrips - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Spider mites - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Do not apply within 15 days of harvest.

LETTUCE: Aphids, Banded Cucumber beetles, Leafhoppers, Lygus bugs - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Do not apply within 7 days of harvest on Head lettuce. 21 days of harvest on Bibb and Leaf lettuce.

OKRA: Aphids - 1 pint per acre in sufficient water for thorough coverage. Leafminers - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Stink bugs - 1 to 1 1/2 pint per acre in sufficient water for thorough coverage. Do not apply within 21 days of harvest.

PEANUTS: Fall armyworm, Rednecked peanutworm, Lesser cornstalk borer - 1 pint per acre in sufficient water for thorough coverage. For Lesser cornstalk borer, apply to base of plant and soil surface. Corn rootworms (larvae) - 4 to 5 pints per acre in sufficient water for thorough coverage. For Corn rootworms (larvae), apply as a row soil treatment at planting or pegging. Incorporate lightly into soil. For Southern corn rootworm, apply as a preplant broadcast soil treatment and incorporate into top 4 to 6 inches of soil, or apply as a band treatment of the fruiting zone just prior to pegging. Do not apply within 15 days of harvest.

PECANS: Aphids - 1/2 to 1 pint per 100 gallons of water. Mites - 1/2 pint per 100 gallons of water. Pecan leaf casebearer, Pecan casebearer, Walnut caterpillar, Fall webworm - 3.5 to 1/2 pint per 100 gallons of water. Twig girdler - 4.5 to 2 pints per 100 gallons of water. For Pecan leaf casebearer and Twig girdler, apply 3 to 5 times at 2- to 3 week intervals. For Pecan casebearer, apply when nut tips begin to turn brown. Repeat in 7 days and in subsequent cover sprays if needed. For Walnut caterpillar and Fall webworm, apply when caterpillars appear and are still small. Do not apply within 15 days of harvest. Do not apply after husks open. Do not feed treated husks to livestock.

PEPPER: Aphids, Leafminers, Thrips - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Flea beetles - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Do not apply within 15 days of harvest.

POTATO: Aphids, Armyworm, Leafhopper, plant bug, Leafminers - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Banded cucumber beetles, loopers, Stink bugs - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Do not apply within 15 days of harvest.

STRAWBERRIES: Flea Beetles, Leafrollers, Parnassia, Thrips - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Field crickets - 1 to 1 1/2 pints per acre in sufficient water for thorough coverage. Do not apply within 14 days of harvest.

TOMATO: Aphids, Stink bugs - 1/2 to 1 pint per acre in sufficient water for thorough coverage. Banded cucumber beetles, loopers - 1 pint per acre in sufficient water for thorough coverage. Do not apply within 10 days of harvest.

USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE EQUIPMENT AND CLOTHING

(1) Wear water proof pants, coat, hot rubber boots or rubber overshoes. (2) Wear safety goggles. (3) Wear mask or respirator approved by the U.S. Bureau of Mines for parathion protection. (4) Wear heavy duty natural rubber gloves.

WORK SAFETY RULES

Keep all unprotected persons and children away from treated area or where there is danger of drift.

Do not rub eyes or mouth with hands. If you feel sick in any way STOP work and get help right away. Call a doctor (physician) clinic or hospital immediately. Explain that the victim has been exposed to parathion and describe his condition. After first aid is given (see First Aid Treatment Section) and if a doctor cannot come, take victim to clinic or hospital.

IMPORTANT! Before removing gloves, wash them with soap and water. Always wash hands, face and arms with soap and water before smoking, eating or drinking.

AFTER WORK take off all work clothes and shoes. Shower using soap and water. Wear only clean clothes when leaving job. Do not wear contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Respirator should be cleaned and filter replaced according to instructions included with respirator.

POISON SIGNS (Symptoms)

Parathion is a very dangerous poison. It rapidly enters the body by contact with oil skin surfaces and eyes. Clothing wet with this material must be removed immediately. Exposed persons must receive prompt medical treatment or they may die.

Some of the signs and symptoms of poisoning are: Headache, nausea, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, labored breathing, nervousness, sweating, watering of eyes, drooling or foaming of mouth and nose, muscle spasms and coma.

NOTICE OF WARRANTY

Helena Chemical Company warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions of Sale, subject to the inherent risks referred to therein.

Helena Chemical Company makes no other express or implied warranty, including any other express or implied warranty of FITNESS or MERCHANTABILITY, and no agent of Helena Chemical Company is authorized to do so, except in writing with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages and not include consequential or commercial damages such as loss of profit or value, etc.

PARATHION MIXTURE LIQUID

EPA Reg. No. 5905-314

NET CONTENTS

U.S. GALLONS

ACCEPTED
MAY 1 1978
EPA Reg. No. 5905-334

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