

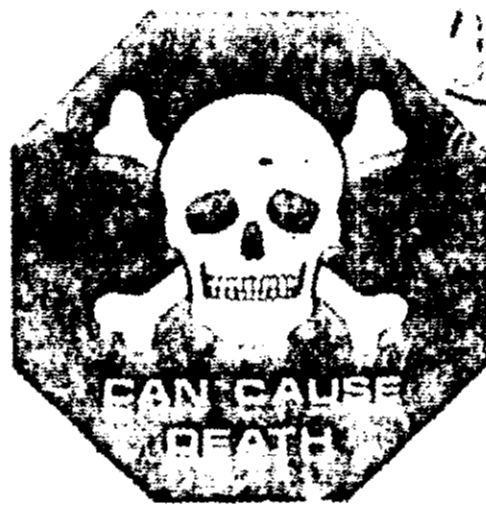


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STOP-READ LABEL BEFORE USING!

**POISON**

See Side Panels  
for Antidote &  
Precautions



**DANGER**

Keep Out of  
Reach of  
Children

**ACCEPTED**  
MAR 17 1975  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, this pesticide  
is registered under  
EPA Reg. No. 560-102

**HELENA**

**PARATHION 4-E**

Emulsifiable Liquid - An Agricultural Insecticide

NOT FOR HOME USE

DO NOT RE-USE THIS CONTAINER FOR ANY PURPOSE

HELENA CHEMICAL COMPANY

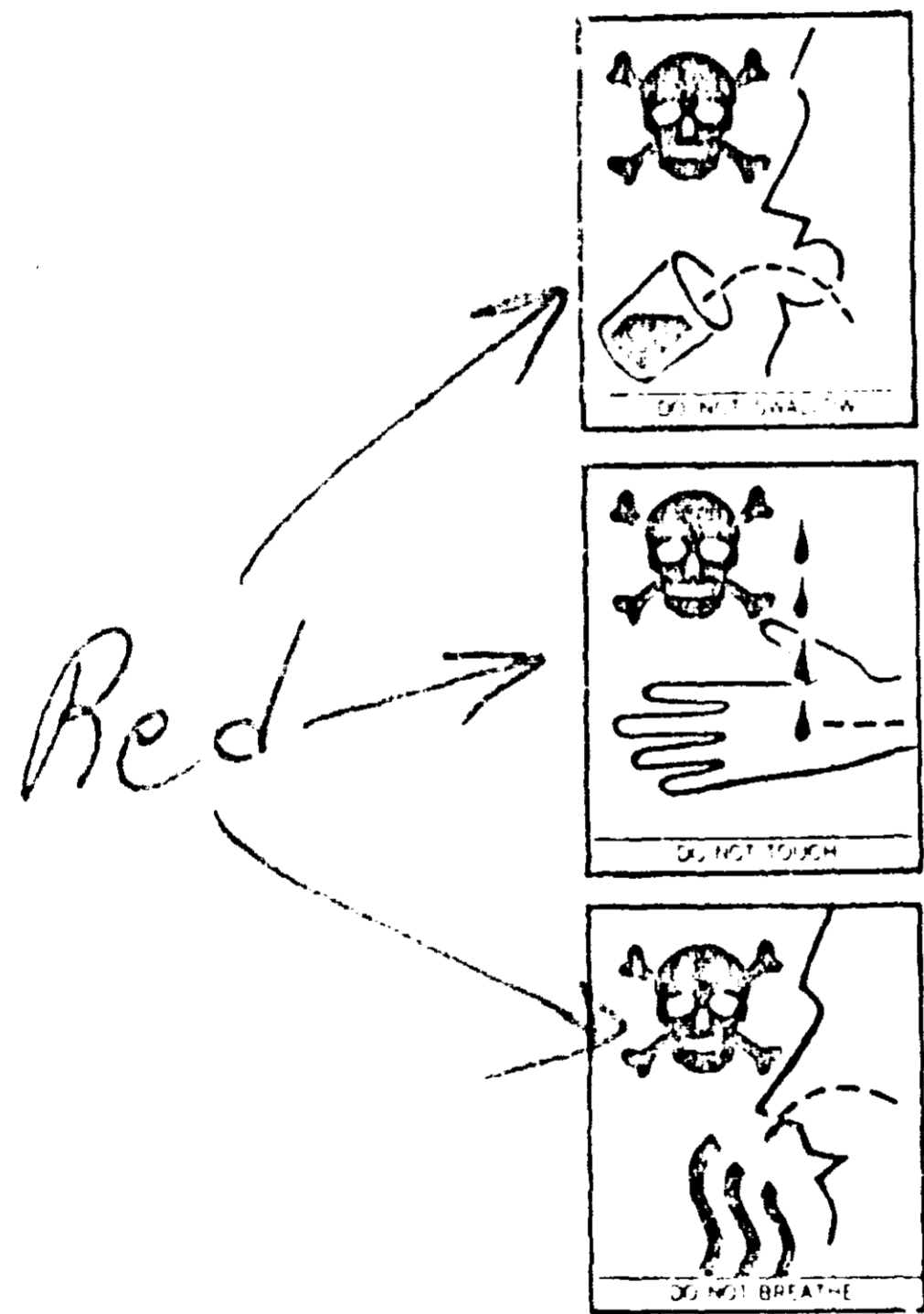
Red

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(2)



**DANGER—POISON—PRECAUTIONS**

**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, crab, birds, and other wildlife. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Birds and other wildlife in treated areas may be killed. 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.

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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: Headache, 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 soapy 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.

ANTIDOTE - administer atropine sulfate in large doses, TWO to FOUR mg. intravenously <sup>1100</sup> (3) or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2 PAM chloride is also antidotal and may be administered 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.

#### POST TREATED AREA

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH DANGER STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

KEEP PESTICIDE IN ORIGINAL CONTAINER.

#### 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 an 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, ½ cup caustic soda (household lye), 2 tablespoons of detergent.

30-GALLON DRUMS—3 gallons water, 1 lb. caustic soda (household lye), ½ 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.

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

5-GALLON DRUMS—2 qts. water,  $\frac{1}{2}$  cup caustic soda (household lye), 2 tablespoons of detergent.

30-GALLON DRUMS—3 gallons water, 1 lb. caustic soda (household lye),  $\frac{1}{2}$  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 RINSE 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 persons stay well away from smoke and fumes. Do not attempt to burn more than 5 containers at one time.

#### DIRECTIONS FOR USE

#### DIRECTIONS FOR MIXING AND SPRAYING

Mix in water with agitation; agitator wheel sprayer. Apply to row and field crops in 3 to 10 gals. (California only: use 10 to 15 gals.) of water per acre by ground spray rig or 1 to 3 gals. (California only: use 3 to 5 gals.) of water by airplane.

COMPATIBILITY - Avoid combinations containing highly alkaline materials such as lime-Sulfur solutions or lime. Alkaline combinations will reduce the effectiveness of Parathion.

ALFALFA, CLOVER: Armyworms, Alfalfa Weevil Larvae, Webworms - 1/2 to 3/4 pint per acre. Do not apply within 15 days of harvest. (4)

ALMONDS: Peach Twig Borer, San Jose Scale, Parlatoria Scale, Mite Eggs - (Dormant Application) 1 pint plus dormant oil emulsion or dormant emulsive oil at the dosage recommended for the specific oil product per 100 gals. Fruit tree Leafroller, Tent Caterpillar, Peach Twig Borer - 1 pint per 100 gals. Do not apply after hulls open. Do not exceed 600 gals. dilute spray per acre. Do not apply within 14 days of harvest. Do not feed treated hulls to livestock. (For control of Peach Twig Borer: Make applications during appearance of the moths in early to late summer. Apply 2 or 3 sprays to trunk from ground to scaffold limbs timed with moth flight.)

APPLES: European Sawfly, Mealybug, Leafhopper, Grasshopper, (European, Red, Two-Spotted, Pacific, Schoenic, Willamette and Clover mites), [For certain mites, such as Two-Spotted and Willamette, repeat application at 7 to 10 day intervals during summer months], Rosy and Green Apple Aphid, Orange Tortrix Moth, (San Jose, Forbes, Parlatone, and Scurfy Scales), Red-banded Leaf Roller, Woolly Apple Aphids: 1-4 pints per 100 gals. Codling Moth, Apple Maggot, Oriental Fruit Moth and Plum Curculio: 2/3 - 1 pint per 100 gals. Apply at petal fall and every 10 - 14 days thereafter until control is achieved. Do not apply within 14 days of harvest. Do not apply to susceptible varieties. Application may cause injury to fruit and foliage of Golden Delicious, Johnathan and McIntosh apples, as well as related varieties, such as Cortland, Kendall, Macoun and Melba.

APRICOTS: Peach Twig Borer (Dormant Application) - 1 pint plus dormant oil emulsion or dormant emulsive oil at the dosage recommended for the specific oil product per 100 gals. Mealybug, Mealy Plum Aphid - 1/2 pint per 100 gals. Codling Moth, Orange Tortrix, Peach Twig Borer - 1 pint per 100 gals. Do not apply within 14 days of harvest. Do not apply until danger of bee poisoning has passed. Do not exceed 700 gals. dilute spray per acre. (For control of Peach Twig Borer: Make applications during appearance of the moths in early to late summer. Apply 2 or 3 sprays to trunk from ground to scaffold limbs timed with moth flight.) (For control of Codling Moth: Apply at petal fall and every 10 to 14 days thereafter until control is achieved.)

ARTICHOKE: Artichoke Plume Moth, Aphids - 1 quart per acre. Do not apply within 7 days of harvest.

AVOCADOS: Tortricid Moths (including Amorbia Moth) - apply 1 to 2 1/2 quarts per acre. Do not apply within 21 days of harvest.

BARLEY, OATS, WHEAT: Aphids, Armyworms, Black Grass Bug, Stink Bugs, Greenbugs, Winter Grain Mites, Thrips, White Spider Mites, Leafhoppers, Cutworms, Grasshoppers, Brown Wheat Mites, Say's Plant Bugs - 1 to 1 1/2 pints per acre. Chinch Bugs, False Chinch Bugs - 1 1/2 pints per acre. Do not apply within 15 days of harvest.

BEANS: Aphids, Armyworms, Leafhopper, Leaf Roller, Lima Pod Borer, Mexican Bean Beetle, Stink Bugs, Thrips - apply 1 pint per acre in sufficient water for thorough coverage. Leafminer - 1 to 1 1/2 pints per acre. Do not apply within 15 days of harvest. Garden Symphlyan - 5 quarts per acre. Spray broadcast on soil before planting and work into upper 6 inches by discing or rototilling. Pre-plant soil treatment only. Keep all persons and animals out of treated area for 48 hours. Do not contaminate ponds or streams. Repeat application at 7 to 10 day intervals until controlled. Do not apply within 15 days of harvest.

CABBAGE, KALE: Aphids, Blister Beetles, Sugar Beet Webworm - 1 pint per acre. Do not apply within 21 days of harvest if tops are to be used for food or feed, within 15 days of harvest if tops are to be discarded. Wireworms - 1 gallon per acre. Spray broadcast on soil before planting and work into upper 6 inches by discing or rototilling. Pre-plant soil treatment only. Keep all persons and animals out of treated area for 48 hours. Do not contaminate ponds or streams.

BLACKBERRY, BOYSENBERRY, DEWBERRY, LOGANBERRY, RASPBERRY: Aphids - 1 pint per acre. Raspberry Crown Borer - 1 quart per acre. Do not apply within 15 days of harvest.

BLEUBERRY: Maggots, Thrips - 1 pint per acre. Do not apply within 14 days of harvest.

BROCCOLI: Aphids, Vegetable weevil, Cabbage looper, Diamond Back Moth Larvae, Imported cutworm, Climbing Cutworms, Wireworms - 1 pint per acre. Do not apply to Broccoli within 7 days of harvest.

CARROT: Aphids, Climbing Cutworm, Thrips, Vegetable weevil, Cabbage looper, Diamond Back Moth larvae, Imported cutworm, Wireworms - 1 quart per acre. Do not apply within 21 days of harvest.

CARROT, BEETROOT: Aphids, Vegetable weevil, Cabbage looper, Diamond Back Moth larvae, Imported cutworm, Climbing Cutworms, Wireworms - 1 pint per acre. Wireworms, Spider Symphylan - 5 quarts per acre. Spray broadcast on soil before planting and work into upper 6 to 9 inches by discing or rototilling. Pre-plant soil treatment only. Keep all persons and animals out of treated area for 48 hours. Do not contaminate ponds or streams. Do not apply to Carrot until 14 days of harvest; to Beetroot until 7 days of harvest. Do not apply to Carrot for seed only, to Beetroot for seed only. Do not apply to Carrot for seed only, to Beetroot for seed only.

CARROT: Aphids, Spider Mites, Vegetable weevil, Imported cutworm, Climbing Cutworm, Wireworms - 1 pint per acre. Do not apply within 21 days of harvest. Do not apply to Carrot for seed only, to Beetroot for seed only. Do not apply to Carrot for seed only, to Beetroot for seed only. Do not apply to Carrot for seed only, to Beetroot for seed only.

CELERY: Leafminer and Whiteflies - 1/2 pints per acre. Aphids, Climbing Cutworms, Cabbage Loopers, Leafhoppers, Celery Leafminers, Spider Mites - 1 pint per acre. Symphylans, Wireworms - 5 quarts per acre. Do not apply within 21 days of harvest. Spray broadcast on soil before planting and work into upper 6 to 9 inches by discing or rototilling. Pre-plant soil treatment only. Keep all persons and animals out of treated area for 48 hours. Do not contaminate ponds or streams.

Aphid Eggs, Brown Mite - (1 pint Application) 1 pint plus dormant oil emulsion or dormant emulsive oil at the dosage recommended for the specific oil product per 100 gals. Orange Tortrix, Leaf Miner, Mites, Casebearers (during growing season), Red Spider Mites, Black Cherry Aphid - 1/2 pint per 100 gals. Cherry Fruitworm, Bud Moth, Cankerworm, San Jose Crawlers - 2/3 pint per 100 gals of water. Plum Curculio, Oriental Fruit Moth (apply at petal fall and every 10 to 14 days thereafter until control is achieved) - use 2/3 pint per 100 gals. of water. For San Jose Scale Crawlers, apply after emergence. Fruit Fly - 1/2 to 2/3 pint per 100 gallons of water. Apply within 5 days after first fly emerges and repeat every 10 days. Repeat immediately after every rain. For additional protection use the same dosage in a post-harvest spray. Shot-hole Borer (following petal fall and in late summer) - 2/5 to 1/2 pint per 100 gals. of water. Do not apply within 14 days of harvest. Do not exceed 400 gals. dilute spray per acre.

CITRUS (ORANGES, LEMONS, GRAPEFRUIT): Purple, Florida Red, Cottony-cushion and Snow Scales and Mealy bug - Use 2/3 pint per 100 gallons of water between June and September or use 6 ozs. per 100 gallons of water in two sprays, the first in the spring and a second between June and September. Do not apply more than 4 quarts of this material per acre. Do not apply within 14 days of harvest.

COLLARDS: Armyworms, Climbing Cutworms, Diamond-Back Moth, Thrips, Aphid, Cabbage Looper, Imported Cabbage Worm, Vegetable Weevil - 1 pint per acre. Do not apply within 10 days of harvest.

CORN: For control of European corn borers, in the whorl use 1 pint per acre. Apply the first spray when 75% of the corn plants show "shot hole" feeding and follow with two additional sprays at 5 to 7 day intervals. Use sufficient water per acre to provide complete coverage and be certain whorls of plant are well treated. Consult your State Agricultural Experiment Station for proper timing of treatments. For corn leaf aphids, use 1/2 pint per acre. For fall armyworms, corn rootworm adults, armyworms, cutworms, budworm, mites, grasshoppers and Japanese beetles, use 1 pint per acre. For corn earworms use 1 pint per acre. Apply to silks as soon as they appear. Make 3 to 4 applications at 2 to 3 day intervals as infestation warrants. Reapply immediately after rain. To control stink bugs and spider mites, use 1 pint per acre. To control chinch bugs, use 1 1/2 pint per acre. Do not apply within 12 days of harvest.

COTTON: To control Aphids, Mites, Cotton Leaf Worm, Cotton Fleahoppers, Garden Webworms and Thrips - 1/2 pint per acre. For some Spider Mites - 1/4 to 1/2 pint per acre. For Cabbage Loopers, Boll Weevil - 1 pint per acre. For Stink Bugs - 1 to 1 1/2 pint per acre. For Salt Marsh Caterpillars - 1 to 2 pints per acre. For Bollworms, Cotton Leaf Perforators, Lygus Bugs, False Chinch Bugs, Serpentine Leaf Miners and Southern Garden Leafhoppers - 2 pints per acre. Use enough water for complete coverage. Make first application when insects appear and repeat at 7 day intervals if required. If desired, this information may be combined with other insecticides in a complete cotton spray program. Workers entering fields within 24 hours after application should wear protective clothing. Do not handpick or harvest within 7 days.

CRANBERRY: (transmittal) Leafminer, Girdler, Tipworm, Cranberry Leafworm.



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CUCUMBERS: Aphids, Cucumber Beetles, Flea Beetles, Stink Bugs, Vine Borer, Leafhoppers, Thrips, Spider Mites, Squash Bug, Leaf Miner-1 pint per acre. Do not apply within 15 days of harvest. Do not apply before vining.

CURRANT: Aphids-Use 1/4 to 1/2 pint as leaf buds open in spring. Red Spider Mites-Use 1/2 to 1 pint before bloom. Do not apply within 30 days of harvest.

EGGPLANT: Aphids, leaf miners, mites, thrips, red spider mites, whiteflies-1 qt. per acre in sufficient water for thorough coverage. Do not apply within 15 days of harvest.

FENNEL, FENICUL: Aphids, leafhopper-1 pint per acre. Do not apply within 15 days of harvest.

FIG: Citrus Scale Crawlers-1 to 2 1/2 pints per acre as a fall or early spring. Do not apply within 30 days of harvest.

GARLIC: Leaf Miner, Thrips, Petroselin Mite-1 pint per acre. Do not apply within 15 days of harvest.

GRAPES: Scab Beetle, Leafhopper, Thrips, Mites, Downy Mould, Grape Leafhopper (forment application) 1 1/2 to 5 pints per acre. Forment oil emulsion per 100 gals. per acre. Apply 10 to 15 gals. spray solution per acre by ground sprayer. Forment application 1 pint per 100 gals. per acre. Use 20 gals. spray solution per acre by ground sprayer in late June or early July. Do not apply within 15 days of harvest.

HERB: Aphids, leafhopper - 1 quart per acre. Do not apply within 15 days of harvest.

LETTUCE: Aphids, leafhopper, thrips, mites, spider mites, whiteflies, flea beetles, squash bug, leaf miner, leaf miner-1 pint per acre. Do not apply within 15 days of harvest.

PUMPKIN: Aphids, leafhopper, thrips, mites, spider mites, whiteflies, flea beetles, squash bug, leaf miner, leaf miner-1 pint per acre. Do not apply within 15 days of harvest.

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LETTUCE (Head, Bibb, Leaf): Leaf miners-1 pint plus 5 lbs. of brown sugar per acre. Aphids, Banded cucumber beetle, leafhopper, Lygus bugs-1 pint per acre. Do not apply within 7 days of harvest for head lettuce or within 21 days of harvest for bibb and leaf lettuce.

LETTUCE (HEAD): Garden Symphylan - 5 quarts per acre. Spray broadcast on soil surface and work into top 6 to 9 inches by disking or rototilling. Pre-plant soil application only. Keep all persons and animals out of treated area for 48 hours. Do not contaminate ponds or streams.

MELONS: (CANTALOUPE, MUSKMELOON, HONEYDEW, WATERMELON): Stink bug, Vine borer, Aphids, Thrips, Spider Mites, Cucumber Beetle, Leafhoppers-1 pint per acre. Do not apply within 7 days of harvest.

MUNTARD: Aphids, Cabbage Looper, Climbing Cutworms, Diamond-Back Moth, Imported Cabbag Worm, Vegetable Weevil, Armyworms, and Thrips-Apply 1/2 to 1 pint per acre in sufficient water for thorough coverage. Do not apply within 14 days of harvest. For cabbage loopers and leafminers, apply at a rate of 1 pint per acre.

NETTLE: Aphids, Leafminer, Stink bug-1 pint per acre. Do not apply within 14 days of harvest.

ONION: Flea beetle, Black beetle-1 to 1 1/4 gallons per acre in full coverage spray. Do not apply within 14 days of harvest.

POTATO: Flea beetle, Thrips, Imported cutworm-1 1/4 pints per acre. Do not apply within 14 days of harvest.

ORNAMENTALS (Outdoor Only): Aphids, Whitefly, Spider Mites, Leaf-hoppers, Thrips, Lacebug, Bagworm, Cottony-Cushion Scale -Use 1 pint with 3 gals. of water and spray until runoff. For Spider Mites and Leaf-hoppers repeat in 7 to 10 days. Juniper Webworm, Lecanium Scale-Use 1 1/2 pints with 3 gallons of water and spray until runoff. Mealybugs, Scales, Leaf Tiers-Use 1 1/2 pints with 3 gals. of water and spray until runoff against young or crawler stages. Repeat in 3 weeks, if necessary. Spray foliage until thoroughly covered. CHRISTMAS TREES-To control aphids and mites, use 1/2 pint per 100 gallons of water.

PEACHES, NECTARINES: San Jose Scale, Brown Apricot Scale, Walnut Scale, Parlatoria Scale, Peach Twig Borer-(Dormant Application) 1 pint plus dormant oil emulsion or dormant emulsive oil at the dosage recommended for the specific oil product per 100 gals. Peach Twig Borer, Oriental Fruit Moth-1 pint per 100 gals. (For control of Peach Twig Borer: Make applications during appearance of the moths in early to late summer. Apply 2 or 3 sprays to trunk from ground to scaffold limbs timed with moth flight.) (For control of Oriental Fruit Moth: Apply at petal fall and every 10 to 14 days thereafter until control is achieved.) Thrips (Nectarines only) -1/2 pint per 100 gals. Do not apply more than 5 lbs. actual parathion per acre between January 1 and harvest. In California do not apply more than once after bloom; do not exceed 250 gals. diluted spray per acre.

PEACHES, NECTARINES - (AREAS OTHER THAN CALIFORNIA): Fruit Tree Leaf Roller, Cottony Peach Scale, Green Peach Aphid, Spider Mites, Shot-hole Borer (apply during peak of adult beetle activity.). Red Banded Leaf Roller, Plum Curculio, Oriental Fruit Moth, Peach Tree Borer, Cat-facing insects - 1/2 pint per 100 gallons of water. (For control of Plum Curculio and Oriental Fruit Moth: Apply at petal fall and every 10 to 14 days thereafter until control is achieved.) Lecanium Scale and San Jose Scale (Apply after all eggs have hatched) - 4/5 pint per 100 gallons of water. Do not apply more than 5 pints of product per acre per year. Do not apply within 14 days of harvest.

PEARS: Blister Mite 2/3 pint per 100 gallons of water in pre-blossom spray. Pear Psylla - 1/2 pint per 100 gallons of water in pre-blossom or post-blossom sprays. Codling moth, Mealy Bug, Mealy Aphid and certain Spider Mites- dosages listed under apples. (For control of Codling Moth: Apply at petal fall and every 10 to 14 days thereafter until control is achieved.) Injury may occur on some variety. Do not apply within 14 days of harvest.

PEARS, BLACKBERRY: Leafminer, Aphids - 1 pint per acre. Do not apply within 14 days of harvest.

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PEAN, GARLICK: Thrips, Climbing Cutworm, Armyworms, Leafminers, Aphids, Pea Weevil-1 pint per acre. Do not apply within 10 days of harvest. Do not use for feed or forage.

PEANUTS: To control fall armyworms and red necked peanut-worms, use 1 pint per acre. To control lesser cornstalk borers, use 1 pint per acre, direct spray to soil surface and base of plants. Do not apply within 15 days of harvest.

PEPPERS: Aphids, flea beetles, leaf miners, thrips-1 pint per acre. Do not apply within 15 days of harvest.

PLUMS, PRUNES: Parlatoria Scale, San Jose Scale, Brown Apricot Scale, Mealy Plum Aphid Eggs, Leaf Curl Aphid Eggs - (Dormant Application) - 1 pint plus dormant oil emulsion or dormant emulsive oil at the dosage recommended for the specific oil product per 100 gals. Fruit Tree Leafroller, Peach Twig Borer, Codling Moth - 1 pint per 100 gals. of water. (For control of Peach Twig Borer: Make application during appearance of the moths in early to late summer. Apply 2 or 3 sprays to trunk from ground to scaffold limbs timed with moth flight.) (For control of Codling Moth: Apply at petal fall and every 10 to 14 days thereafter until control is achieved.) Bud Moth, Orange Tortrix - 1/2 pint per 100 gals. of water. Tussock Moth - 2/3 pint per 100 gals. of water. Do not apply within 14 days of harvest. Do not apply more than 8 pints per acre.

POTATO: Aphids, Colorado Potato Beetle, Flea Beetle, Grasshoppers, Whiteflies, Plant Bugs, Blister Beetles, Vegetable Weevil, Leafhoppers, Leaf Miners, Stink Bugs, Thrips, Armyworms, Banded Cucumber Beetle, Looper, Leaf-Footed Plant Bugs - 1 pint per acre. Russet Mite and Potato Psylla - 2 pints per acre. Do not apply within 5 days of harvest. Garden Symphylan - 5 quarts per acre. Broadcast spray on soil surface and work into top 6 to 9 inches by discing or rototilling. Pre-plant soil application only. Keep all persons and animals out of treated area for 48 hours. Do not contaminate ponds or streams.

PUMPKIN: Aphids, Flea Beetles, Leaf Miners, Thrips, Armyworms, Grasshoppers, Whiteflies, Plant Bugs, Blister Beetles, Vegetable Weevil, Leafhoppers, Leaf Miners, Stink Bugs, Thrips, Armyworms, Banded Cucumber Beetle, Looper, Leaf-Footed Plant Bugs - 1 pint per acre. Do not apply within 5 days of harvest.

RAISINS: Aphids, Leaf Miners, Thrips - 1 pint per acre. Do not apply within 15 days of harvest.

WATERMELON: Aphids, Flea Beetles, Leaf Miners, Thrips, Armyworms, Grasshoppers, Whiteflies, Plant Bugs, Blister Beetles, Vegetable Weevil, Leafhoppers, Leaf Miners, Stink Bugs, Thrips, Armyworms, Banded Cucumber Beetle, Looper, Leaf-Footed Plant Bugs - 1 pint per acre. Do not apply within 5 days of harvest. Garden Symphylan - 5 quarts per acre. Broadcast spray on soil surface and work into top 6 to 9 inches by discing or rototilling. Pre-plant soil application only. Keep all persons and animals out of treated area for 48 hours. Do not contaminate ponds or streams.

WATERMELON: Aphids, Armyworms, Climbing Cutworms, Diamond-borer, etc. Use Dieldrin 20-40. Cabbage Looper, Imported Cabbageworm - 1 pint per acre. Do not apply within 7 days of harvest.

WATERMELON: Aphids, Lygus Bugs, Fleahoppers, etc. - 1 pint per acre. Do not apply after 21 weeding.

SORGHUM: Sorghum midges, apply 1 to 2 pts. per acre, 2 applications 3 to 5 days apart when approximately 50% of the heads have completely emerged from the boot or not later than start of blooming. Corn leaf aphid and mites, 1/2 pt. per acre. Sorghum web worms, fall armyworms, armyworms, and corn ear worms, use 3/4 to 1 pint per acre. Chinch bugs, use 1 1/2 pts. per acre. Leaf injury may occur on some hybrid varieties of sorghum. Spray a few rows a week or so before booting to test effects on plants. Do not treat within 14 days of harvest or cutting for storage.

SPINACH: To control webworms use 1/2 pint per acre. To control velvet bean caterpillars, green alder worms, turnip root miner and other borers, use 1 pint per acre. To control corn earworms, fall armyworms, use 1 2/3 pints per acre. To control aphids, etc. and fleahoppers, use at least 1 gallon per acre. Start when plants are plentiful and gradually increase to 1 1/2 gallons per acre. Do not apply more than 1 1/2 gallons per acre. Do not apply within 14 days of harvest or cutting for storage.

SPINACH: Cabbage Looper, Vegetable Weevils, Flea Beetles, Seed Corn Maggot on crown, Aphids, Crown Mite - 1 pint per acre. Do not apply within 14 days of harvest.

SPINACH: Aphids, Fleahoppers, etc. - 1 pint per acre. Do not apply within 14 days of harvest.

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SUGAR BEETS: Alfalfa Looper, Armyworms, Cutworms, Flea Beetles, Sugarbeet Weevils, Aphids, Leaf Miners, Blister Beetles, Beet Leafhopper - 1 to 2 pints per acre. Sugar Beet Crown Borers, Fall Flea Beetles, Leaf Miners - 1 pint per acre. Do not apply within 10 days of harvest.

SPINACH: Alfalfa Looper, Armyworms, Cutworms, Flea Beetles, Sugarbeet Weevils, Aphids, Leaf Miners, Blister Beetles, Beet Leafhopper - 1 to 2 pints per acre. Sugar Beet Crown Borers, Fall Flea Beetles, Leaf Miners - 1 pint per acre. Do not apply within 10 days of harvest.

SWISS CHARD: Alfalfa Looper, Armyworms, Cutworms, Flea Beetles, Sugarbeet Weevils, Aphids, Leaf Miners, Blister Beetles, Beet Leafhopper - 1 to 2 pints per acre. Sugar Beet Crown Borers, Fall Flea Beetles, Leaf Miners - 1 pint per acre. Do not apply within 10 days of harvest.

WINTER SQUASH: Aphids, Colorado Potato Beetle, Flea Beetles, Leaf Miners, Blister Beetles - 1 pint per acre. Do not apply within 10 days of harvest.

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TOMATO: Aphids, Banded Cutworm Beetle, Loopers, Leaf Miners, Spider Mites, Russet Mite, Stink Bugs, Colorado Potato Beetle, Flea Beetle, Leafhoppers, Grasshoppers, Whiteflies, Thrips, Potato Psylla, Plant Bugs, Blister Beetles - 1 pint per acre. Vegetable Weevil, Armyworms, - 2 pints per acre. Do not apply within 10 days of harvest.

WINTER SQUASH: Aphids, Colorado Potato Beetle, Flea Beetles, Leaf Miners, Blister Beetles - 1 pint per acre. Do not apply within 10 days of harvest.

... : ... , ... , blister beetles, grasshoppers-  
... / ... / ... per acre in sufficient water for thorough  
... of ... of infestation. Do not apply within  
10 days of harvest or forage use.

WALNUTS: Frosted Scale, European, Fruit, Lecanium, Calico  
Scale-(Dormant Application) 2 1/2 pints plus dormant oil  
emulsion at the rate recommended for the specific oil  
product in 100 to 200 gals. water per acre, applied by air  
blast sprayer; (Spring-Summer) 1 to 1 1/2 pints plus summer  
oil emulsion at the dosage recommended for the specific oil  
product in 200 to 300 gals. water per acre applied by air  
blast sprayer. Putnam Scale, San Jose Scale-(Dormant  
Application) 2 1/2 pints plus 2 gals. dormant oil emulsion  
in 100 gals. water per acre applied by air blast sprayer.  
Do not apply after husks open.

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### USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE EQUIPMENT AND CLOTHING

(1) Wear water proof pants, coat, hat, 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.

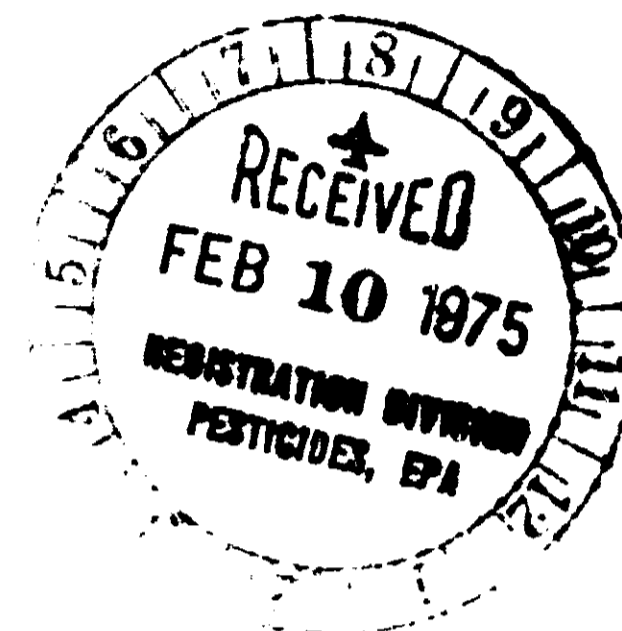
AFTER WORK, take off all work clothes and shoes. Shower, using soap and water. Wear only clean clothes when leaving job. Do not wear contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Respirator should be cleaned and filter replaced according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

### POISON SIGNS (Symptoms)

Aed

Parathion is a very dangerous poison. It rapidly enters the body by contact with all 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 frothing of mouth and nose, muscle spasms, and coma.





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## 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 of 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 commercial damages such as loss of profit or value, etc.

E.P.A. REG. NO. 5905-82

NET CONTENTS

U.S. GALLONS