

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

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)

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, pinpoint pupils, tightness in chest, labored breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms and coma.

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 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, 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 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 3 containers at one time.

DIRECTIONS FOR USE**DIRECTIONS FOR MIXING AND SPRAYING**

Mix in water with agitation; agitate while spraying. Apply to row and filed crops in 3 to 10 gals. (California only: use 20 to 100 gals.) of water per acre by ground spray rig or 1 to 3 gals. (California only: use 5 to 15 gals.) of water by airplane.

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

ALFALFA: Alfalfa Weevil (larvae) - 1/4 to 1/2 pint per acre. (Apply when 75% terminals show feeding, when buds and shoots appear ragged, or when the larvae count reaches 25 per sweep. Do not apply within 15 days of harvest.) Aphids (including Pea Aphid and Spotted Alfalfa Aphid) - 1/4 to 1/2 pint per acre. (For Spotted Alfalfa Aphid, apply early in spring. Do not apply within 15 days of harvest.) Armyworms, Cutworms (Climbing), Flea Beetles, Grasshoppers, Leafhoppers and Thrips - 1/4 to 1/2 pint per acre. (Do not apply within 15 days of harvest.) Alfalfa Caterpillars, Alfalfa Weevil (adult) (Refer also to Egyptian weevil), Clover Leaf Weevil and Webworms - 1/2 pint per acre. (Do not apply within 15 days of harvest.) Lygus Bugs, Mites and Stink Bugs - 1/4 to 1/2 pint per acre. (Do not apply within 15 days of harvest.) Egyptian Alfalfa Weevil - 1/2 to 1 pint per acre. (Do not apply within 15 days of harvest.) Alfalfa Seed Chalcid - 1/4 to 1 1/2 pints per acre. (Do not apply within 20 days of harvest.)

APPLES: Aphids (including Apple, Rosy Apple and Woolly Apple Aphid) and Mites (European Red) - 1/4 to 1/2 pint per acre (per 100 gallons of water) (Do not apply within 15 days of harvest.) Codling Moth and Plum Curculio - 1/4 to 1 pint per acre (per 100 gallons of water) (Do not apply within 15 days of harvest. Apply at petal fall and every 10 to 14 days thereafter until control is achieved.) Leafroller (Redbanded) and Scales - 1/4 to 1 pint per acre (per 100 gallons of water) (Do not apply within 15 days of harvest.)

APRICOTS: Aphids (including Green Peach Aphid) and European Red Mite - 1/4 pint per acre (per 100 gallons of water) (Do not apply within 14 days of harvest.)

ARTICHOKES: Aphids, Armyworms (to 3rd instar) and Plant Bugs - 1/2 pint per acre. (Do not apply within 7 days of harvest.) Artichoke Plume Moth - 1 pint per acre. (Do not apply within 7 days of harvest. If plants are cut in April and May, begin applications after September, and repeat at 14 to 21-day intervals as needed through December; 30-day intervals through January and February; 14-day intervals from March through the end of picking season. Workers should not re-enter fields for 7 days following treatment.) Cutworms (including Climbing and Surface feeding species) and Cabbage Looper - 1 pint per acre. (Do not apply within 7 days of harvest.)

BARLEY: Thrips (Barley) - 1/4 to 1/2 pint per acre. (Do not apply within 15 days of harvest.) Cutworms (Climbing), False Chinch Bug, Leafhopper, Mites (Brown Wheat) and (Winter Grain) - 1/4 to 1/2 pint per acre. (Do not apply within 15 days of harvest.) Aphids (including Greenbug) - 1/4 to 1/2 pint per acre. (Do not apply within 15 days of harvest. Apply 1/2 pint per acre for Greenbug control.) Armyworms (to 2nd instar), Black Grass Bugs and Stink bugs - 1/4 to 1/2 pint per acre. (Do not apply within 15 days of harvest.) Chinch Bugs and Soy Stink Bugs - 1/4 pint per acre. (Do not apply within 15 days of harvest.)

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BEANS: Aphids, Armyworms, Flea Beetles, Leafhoppers, Mites and Plant Bugs (including Lygus Bugs) - $\frac{1}{2}$ to $1\frac{1}{4}$ pints per acre. (Do not apply within 15 days of harvest.) Cabbage Looper - 1 pint per acre. (Do not apply within 15 days of harvest.) Cowpea Curculio, Cutworms (including Climbing and Surface feeding species) and Stink Bugs - 1 to $1\frac{1}{4}$ pints per acre. (Do not apply within 15 days of harvest.)

BEETS: Armyworms, Flea Beetles, Leafhoppers and Mites - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 15 days of harvest. Do not apply within 21 days if tops are to be used for food or feed.) Cabbage Looper, Plant Bugs (including Lygus Bugs) and Stink Bugs - 1 pint per acre. (Do not apply within 15 days of harvest. Do not apply within 21 days if tops are to be used for food or feed.) Aphids - 1 to $1\frac{1}{4}$ pints per acre. (Do not apply within 15 days of harvest. Do not apply within 21 days if tops are to be used for food or feed.)

BROCCOLI: Thrips - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 21 days of harvest.) Aphids and Armyworms - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 21 days of harvest.) Flea Beetles, Leafhoppers and Mites - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 21 days of harvest.) Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to $1\frac{1}{4}$ pints per acre. (Do not apply within 21 days of harvest.) Plant Bugs - $1\frac{1}{4}$ pints per acre. (Do not apply within 21 days of harvest.)

BRUSSELS SPROUTS: Aphids, Armyworms and Thrips - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 21 days of harvest.) Flea Beetles, Leafhoppers and Mites - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 21 days of harvest.) Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to $1\frac{1}{4}$ pints per acre. (Do not apply within 21 days of harvest.) Plant Bugs - $1\frac{1}{4}$ pints per acre. (Do not apply within 21 days of harvest.)

CABBAGE: Aphids, Armyworms and Thrips - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 21 days of harvest.) Flea Beetles, Leafhoppers and Mites - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 21 days of harvest.) Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to $1\frac{1}{4}$ pints per acre. (Do not apply within 21 days of harvest.) Plant Bugs - $1\frac{1}{4}$ pints per acre. (Do not apply within 21 days of harvest.)

CARROTS: Aphids, Armyworms, Flea Beetles, Leafhoppers and Mites - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 15 days of harvest. Do not use treated carrot tops for food or feed.) Cutworms, Cabbage Loopers and Plant Bugs - 1 pint per acre. (Do not apply within 15 days of harvest. Do not use treated carrot tops for food or feed.)

CAULIFLOWER: Aphids, Armyworms, Flea Beetles, Leafhoppers, and Mites - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 21 days of harvest.) Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to $1\frac{1}{4}$ pints per acre. (Do not apply within 21 days of harvest.) Plant Bugs - $1\frac{1}{4}$ pints per acre. (Do not apply within 21 days of harvest.)

CELERY: Aphids, Armyworms, Flea Beetles, Leafhoppers and Mites - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 15 days of harvest.) Cabbage Loopers, Plant Bugs and Stink Bugs - 1 pint per acre. (Do not apply within 15 days of harvest.)

CHERRIES: Black Cherry Aphids and European Red Mites - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre (per 100 gals. of water). (Do not apply within 14 days of harvest.)

CLOVER: Alfalfa Weevil (larvae), Aphids (including Spotted Alfalfa Aphid), Armyworms, and Leafhoppers - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest.) [For Aphids (including Spotted Alfalfa Aphid) Apply early in the spring.] [For Alfalfa Weevil (larvae) - Apply when 75% of terminals show feeding, when buds and shoots appear ragged, or when the larval count reaches 25 per sweep.] Lygus Bugs and Mites - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest.) Clover Seed Chalcid and Climbing Cutworms - $\frac{1}{4}$ to $1\frac{1}{4}$ pints per acre. (Do not apply within 20 days of harvest.) (Clover Seed Chalcid - For use on seed crops only.) Alfalfa Weevil (adults), Clover Leaf Weevil and Webworms - $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest.) Thrips - $\frac{1}{2}$ to $\frac{1}{4}$ pint per acre. (Do not apply within 15 days of harvest.) Egyptian Alfalfa Weevil - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 20 days of harvest.)

COLLARDS: Aphids, Armyworms, Flea Beetles, Leafhoppers and Mites - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 21 days of harvest.) Imported Cabbageworms, Cabbage Loopers, Stink Bugs and Thrips - 1 to $1\frac{1}{4}$ pints per acre. (Do not apply within 21 days of harvest.) Plant Bugs - $1\frac{1}{4}$ pints per acre. (Do not apply within 21 days of harvest.)

CORN: Aphids (including Corn Leaf Aphid), Armyworms, Fall Armyworms, Corn Rootworms (including Western Corn Rootworm - adults), Climbing Cutworms, Flea Beetles, Mites and Stink Bugs - $\frac{1}{2}$ pint per acre. (Do not apply within 12 days of harvest. Workers entering treated fields within 24 hours after application should wear protective clothing.)

COTTON: Fleahoppers (including Cotton Fleahopper) and Thrips - $\frac{1}{8}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 7 days of harvest or handpicking.) (For Thrips - Apply before or during the 4-leaf stage and repeat 1 to 3 times at 7- to 10-day intervals.) Grasshoppers - $\frac{1}{4}$ pint per acre. (Do not apply within 7 days of harvest or handpicking.) Cotton Leafworm and Garden Webworm - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 7 days of harvest or handpicking.) Lygus Bugs, Mites, Spider (including Desert Spider Mites & Two-Spotted Spider Mites) - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 7 days of harvest or handpicking.) False Chinch Bug and Southern Green Stink Bug - $\frac{1}{2}$ pint per acre. (Do not apply within 7 days of harvest.) Aphids (including Cotton Aphid), Fall Armyworms (to 3rd instar), Cotton Leafperforator, Cutworms, and Cabbage Loopers - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 7 days of harvest or handpicking. Workers entering fields within 24 hours after application should wear protective clothing.) [For Aphids (including Cotton Aphid) Apply when Aphids appear in buds and on leaves of seedlings or when honeydew appears on older plants.] Boll Weevil - $\frac{1}{2}$ to 3 pints per acre. (For early season control of overwintering Boll Weevils, apply as early as the 2- to 4-leaf stage and repeat 1 to 3 times at 7 to 10-day intervals. For mid-season control, apply at the start of squaring or after 10 to 25% of the first squares are punctured and repeat at 3 to 8-day intervals as needed or until the top bolls are full grown. Repeat at 3-day intervals during the major fruiting season, and periods of heavy weevil migration.) Saltmarsh Caterpillars, Stink Bugs and Leafrollers - 1 pint per acre. (Do not apply within 7 days of harvest or handpicking.) Bollworms - 1 to 3 pints per acre. (Do not apply within 7 days of harvest or handpicking.) Armyworms - 1 to 2 pints per acre. (Do not apply within 7 days of harvest or handpicking. Workers entering fields within 24 hours after application should wear protective clothing.)

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 USING!

POISON

See Side Panels
for Antidote &
Precautions



DANGER

Keep Out of
Reach of
Children



7.5 Lb. Methyl Parathion

EMULSIFIABLE INSECTICIDE CONCENTRATE

1 gallon of
HELENA 7.5
METHYL PARATHION
contains $\frac{7}{8}$ lbs. of
METHYL PARATHION.

ACTIVE INGREDIENTS

	BY WT.
*O,O-dimethyl O-p-nitrophenyl phosphorothioate	73.6%
Xylene	15.2%
INERT INGREDIENTS	11.2%

TOTAL.....100.0%

ACCEPTED

APR 15 1978

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, the pesticide
registered under
EPA Reg. No. 5905-414

EPA REG. NO. 5905-414

NOT FOR HOME USE

MANUFACTURED BY
HELENA CHEMICAL COMPANY

MEMPHIS, TENNESSEE

CUCUMBERS: Aphids and Spider Mites (including Two-spotted and Desert Spider Mite) - $\frac{1}{4}$ pint per acre. (Do not apply before vining. Do not apply within 15 days of harvest.)

GOOSEBERRIES: Aphids - $\frac{1}{8}$ to $\frac{1}{4}$ pint per acre. (Do not apply within 15 days of harvest.)

GRAPES: Aphids, Grape Leafhopper and Grape Leafhoppers - $\frac{1}{4}$ to 1 pint per acre. (per 100 gals. of water) (Do not apply within 14 days of harvest.) Mites and Thrips - $\frac{1}{4}$ pint per acre. (Do not apply within 14 days of harvest.)

GRASS (Hay, Pasture): Armyworms (to 3rd instar), Black Grass Bugs (including Irbisia), False Chinch Bugs, Grasshoppers and Leafhoppers - $\frac{1}{4}$ pint per acre. (Do not apply within 15 days of harvest.)

HOPS: Aphids, Armyworms, Leafhoppers and Mites - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 15 days of harvest.)

KALE: Aphids and Armyworms - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 3 pints.) Flea Beetles, Leafhoppers and Mites - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 3 pints.) Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to $1\frac{1}{2}$ pints per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 3 pints.) Plant Bugs - $1\frac{1}{2}$ pints per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 3 pints.)

KOHLRABI: Aphids and Armyworms - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 7 days of harvest through 1 pt. Do not apply within 21 days of harvest from 1 pt. through 3 pts.) Flea Beetles, Leafhoppers and Mites - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 7 days of harvest through 1 pt. Do not apply within 21 days of harvest from 1 pt. through 3 pts.) Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to $1\frac{1}{2}$ pints per acre. (Do not apply within 7 days of harvest through 1 pt. Do not apply within 21 days of harvest from 1 pt. through 3 pts.) Plant Bugs - $1\frac{1}{2}$ pints per acre. (Do not apply within 7 days of harvest through 1 pt. Do not apply within 21 days of harvest from 1 pt. through 3 pts.)

LETTUCE: Aphids, Armyworms, Flea Beetles, Imported Cabbageworms, Leafhoppers and Mites - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 21 days of harvest.) Cabbage Loopers and Plant Bugs - 1 pint per acre. (Do not apply within 21 days of harvest.)

MUSTARD GREENS: Aphids and Armyworms - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 3 pints.) Flea Beetles, Leafhoppers and Mites - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 3 pints.) Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to $1\frac{1}{2}$ pints per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 3 pints.) Plant Bugs - $1\frac{1}{2}$ pints per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 3 pints.)

OATS: Brown Wheat Mites - $\frac{1}{8}$ to $\frac{1}{4}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ pint through $1\frac{1}{4}$ pints. Aphids (including Greenbug) and Black Grass Bugs (including Irbisia) - $\frac{1}{8}$ to $\frac{1}{4}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ pint through $1\frac{1}{4}$ pints.) Barley Thrips - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ pint through $1\frac{1}{4}$ pints.) Leafhoppers - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ pint through $1\frac{1}{4}$ pints.) Armyworm (to 3rd instar) and Wintergrain Mites - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ pint through $1\frac{1}{4}$ pints.) Climbing Cutworms - $\frac{3}{8}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ pint through $1\frac{1}{4}$ pints.) Chinch Bugs, False Chinch Bugs, Stink Bugs and Soy Stink Bugs - $\frac{1}{4}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ pint through $1\frac{1}{4}$ pints.)

ONIONS: Thrips (including Onion Thrips) - 0.9 pint per acre. (Do not apply within 15 days of harvest.)

PASTURE (Irrigated (Refer also to grass)): Mosquitoes (larvae) - $\frac{1}{10}$ pint per acre. (Do not apply within 7 days of harvest. Broadcast application.)

PEACHES: Aphids (including Green Peach Aphid and Mealy Plum Aphid) and European Red Mites - $\frac{1}{8}$ to $\frac{1}{4}$ pint per acre. (per 100 gals. of water) (Do not apply within 14 days of harvest. Apply in early cover treatment or apply twice within 5-day intervals as needed.) Oriental Fruit Moth, Peachtree Borer and Plum Curculio - $\frac{1}{4}$ to 1 pint per acre. (per 100 gals. of water) (Apply at petal fall and every 10 to 14 days thereafter until control is achieved. Make applications during appearance of moths in early to late summer. Apply 2 to 3 sprays to trunk from ground to scaffold limbs timed with moth flight. Apply at petal fall and every 10 to 14 days thereafter until control is achieved.)

PEANUTS: Aphids, Thrips and Velvetbean Caterpillar - $\frac{3}{8}$ pint per acre. (Formulated with copper oxide and sulfur.)

PEAS: Aphids, Armyworms (to 3rd instar), Flea Beetles, Leafhoppers, Mites and Plant Bugs (including Lygus Bugs) - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 15 days of harvest from 1 pint through 2 pints.) Cowpea Curculio, Cutworms (including Climbing and Surface Feeding species), Cabbage Loopers and Stink Bugs - 1 pint per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 15 days of harvest from 1 pint through 2 pints.)

PEARS: Aphids - $\frac{1}{8}$ to $\frac{1}{4}$ pint per acre. (per 100 gals. of water) Apply twice with a 5-day interval. European Red Mites - $\frac{1}{4}$ pint per acre. (per 100 gals. of water) (Apply twice with a 5-day interval.)

PEPPERS: Aphids, Armyworms, Flea Beetles, Leafhoppers, and Mites - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 15 days of harvest.) Cutworms (including Climbing and Surface feeding species), Cabbage Loopers and Plant Bugs - 1 pint per acre. (Do not apply within 15 days of harvest.)

PLUMS: European Red Mites - $\frac{1}{8}$ to $\frac{1}{4}$ pint per acre. (per 100 gals. of water) (Do not apply within 14 days of harvest. Apply in early cover treatments or twice with a 5-day interval.) Aphids - $\frac{1}{8}$ to 1 pint per acre. (per 100 gals. of water) (Do not apply within 14 days of harvest. Apply in early cover treatments or twice with a 5-day interval.) Oriental Fruit Moth, Peachtree Borer and Plum Curculio - $\frac{1}{4}$ to 1 pint per acre. (per 100 gals. of water) (Do not apply within 14 days of harvest.) (For Peachtree Borers - Make applications during appearance of the moths in early to late summer. Apply 2 to 3 sprays to trunk from ground to scaffold limbs timed with moth flight.) (For Oriental Fruit Moths and Plum Curculio - Apply at petal fall and every 10 to 14 days thereafter until control is achieved.)

POTATOES: Aphids and Flea Beetles - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 5 days of harvest.) Armyworms, Leafhoppers and Mites - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 5 days of harvest.) False Chinch Bugs, Cabbage Loopers, Plant Bugs (including Lygus Bugs) and Stink Bugs - $1\frac{1}{2}$ pints per acre. (Do not apply within 5 days of harvest.)

PRUNES: European Red Mites - $\frac{1}{8}$ to $\frac{1}{4}$ pint per acre. (per 100 gals. of water) (Do not apply within 14 days of harvest. Apply in early cover treatments or twice with a 5-day interval.) Aphids - $\frac{1}{8}$ to 1 pint per acre. (per 100 gals. of water) (Do not apply within 14 days of harvest. Apply in early cover treatments or twice with a 5-day interval.) Oriental Fruit Moth, Peachtree Borer and Plum Curculio - $\frac{1}{4}$ to 1 pint per acre. (per 100 gals. of water) (Do not apply within 14 days of harvest.) For Oriental Fruit Moth and Plum Curculio - Apply at petal fall and every 10 to 14 days thereafter until control is achieved. (For Peachtree Borer - Make applications during appearance of the moths in early or late summer. Apply 2 to 3 sprays to trunk from ground to scaffold limbs timed with moth flight.)

RICE: Rice Stink Bugs - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest.) Armyworms - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest.) Crabs, crayfish, and shrimp may be killed. Do not apply where they are important resources.) Rice Leafminer and Tadpole Shrimp - $\frac{1}{2}$ pint per acre. (Use restricted to California. Apply at first sign of infestation after planting. Apply by air in 5 to 10 gals. of water. Restrict spill from rice fields for 3 days. Do not use within 14 days of application of 3,4'-dichloropropionanilide as injury may result.)

RUTABAGAS: Aphids, Armyworms, Flea Beetles, Leafhoppers and Mites - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 7 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 3 pints.) Imported Cabbage Worms and Cabbage Loopers - 1 to $1\frac{1}{2}$ pints per acre. (Do not apply within 7 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 3 pints.) Plant Bugs - $1\frac{1}{2}$ pints per acre. (Do not apply within 7 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 3 pints.)

RYE: Brown Wheat Mites - $\frac{1}{8}$ to $\frac{1}{4}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ through $1\frac{1}{4}$ pints.) Aphids (including Greenbug) and Black Grass Bugs (including Irbisia) - $\frac{1}{8}$ to $\frac{1}{4}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ pint through $1\frac{1}{4}$ pints.) Barley Thrips - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ through $1\frac{1}{4}$ pints.) Leafhoppers - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ through $1\frac{1}{4}$ pints.) Armyworms (to 3rd instar), Wintergrain Mites and Stink Bugs - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ pint through $1\frac{1}{4}$ pints.) Climbing Cutworms - $\frac{3}{8}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ pint through $1\frac{1}{4}$ pints.) Chinch Bugs, False Chinch Bugs and Soy Stink Bugs - $\frac{1}{4}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{4}$ pint through $1\frac{1}{4}$ pints.)

SAFFLOWER: Aphids and Lygus Bugs - $\frac{1}{4}$ pint per acre. (Do not apply after flowering through 1 pint.)

SORGHUM: Corn Leaf Aphids and Spider Mites - $\frac{1}{4}$ pint per acre. (Do not apply within 21 days of harvest. Leaf injury may occur on some hybrid varieties. Do not use wetting agents as more severe injury may occur. Spray a few rows a week or so before booting to test effects upon plants.) Sorghum Midges - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 21 days of harvest. Leaf injury may occur on some hybrid varieties. Do not use wetting agents as more severe injury may occur. Spray a few rows a week or so before booting to test effects upon plants.) Apply when approximately 90% of the heads have completely emerged from the boot or not later than the start of blooming.) Greenbug Aphid - $\frac{1}{4}$ pint per acre. (Do not apply within 21 days of harvest. Leaf injury may occur on some hybrid varieties. Do not use wetting agents as more severe injury may occur. Spray a few rows a week or so before booting to test effects upon plants.) Aphids - 1 pint per acre. (Do not apply within 21 days of harvest. Leaf injury may occur on some hybrid varieties. Do not use wetting agents as more severe injury may occur. Spray a few rows a week or so before booting to test effects upon plants.)

SWEET POTATOES: Aphids, Armyworms (to 3rd instar), Cutworms (including Climbing and Surface feeding species), Flea Beetles, Leafhoppers, Cabbage Loopers and Spider Mites - $\frac{1}{4}$ pint per acre. (Do not apply within 5 days of harvest.)

TOBACCO: Green June Beetle - $\frac{1}{3}$ pint per acre. (per 100 gals. of water per 100 sq. yards) (Apply as a drench to plant bed with a sprinkling can. Do not apply within 5 days of transplanting.) Aphids (including Green Peach Aphid) and Cutworms (including Climbing and Surface feeding species) - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest. Do not apply within 5 days of priming. Avoid contact with plant juices when priming or cutting tobacco. When necessary to enter treated fields within 24 hours after application, protective clothing should be worn.)

TOMATOES: Tomato Russet Mites - $\frac{1}{8}$ to $\frac{1}{4}$ pint per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 15 days of harvest from 1 pint through 3 pints.) Aphids and Armyworms - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 15 days of harvest from 1 pint through 3 pints.) Leafhoppers and Mites - $\frac{1}{4}$ to 1 pint per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 15 days of harvest from 1 pint through 3 pints.) Potato Psyllid - $\frac{1}{4}$ to $1\frac{1}{2}$ pints per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 15 days of harvest from 1 pint through 3 pints.) Plant Bugs - 1 pint per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 15 days of harvest from 1 pint through 3 pints.) Cabbage Looper - 1 to $1\frac{1}{2}$ pints per acre. (Do not apply within 10 days of harvest through 1 pint. Do not apply within 15 days of harvest from 1 pint through 3 pints.)

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TURNIPS: Aphids (including Cabbage Aphid) and Armyworms (to 3rd instar) - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 7 days of harvest through $\frac{1}{2}$ pint (roots). Do not apply within 15 days of harvest from $\frac{1}{2}$ pint to $1\frac{1}{2}$ pints (roots). Do not apply within 21 days of harvest if tops are to be used as food or feed.) Flea Beetles, Leafhoppers, Leafminers and Mites - $\frac{1}{2}$ to $\frac{3}{4}$ pint per acre. (Do not apply within 7 days of harvest through $\frac{1}{2}$ pint (roots). Do not apply within 15 days of harvest from $\frac{1}{2}$ pint to $1\frac{1}{2}$ pints (roots). Do not apply within 21 days of harvest if tops are to be used as food or feed.) Imported Cabbage Worms, Cabbage Loopers and Plant Bugs - $\frac{3}{4}$ pint per acre. (Do not apply within 7 days of harvest through $\frac{1}{2}$ pint (roots). Do not apply within 15 days of harvest from $\frac{1}{2}$ pint to $1\frac{1}{2}$ pints (roots). Do not apply within 21 days of harvest if tops are to be used as food or feed.)

SOYBEANS: Climbing Cutworms - $\frac{1}{4}$ pint per acre. (Do not apply within 20 days of harvest. Do not apply more than twice per growing season.) Three Corned Alfalfa Hoppers and Webworms (including Garden Webworms) - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 20 days of harvest. Do not apply more than twice per growing season.) Stink Bugs - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 20 days of harvest. Do not apply more than twice per growing season.) Thrips and Velvetbean Caterpillar - $\frac{3}{8}$ pint per acre. (Do not apply within 20 days of harvest. Do not apply more than twice per growing season.) Aphids, Blister Beetles, Mexican Bean Beetles and Spider Mites - $\frac{1}{4}$ pint per acre. (Do not apply within 20 days of harvest. Do not apply more than twice per growing season.) Green Cloverworms and Cabbage Loopers - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 20 days of harvest. Do not apply more than twice per growing season.) Armyworms, Fall Armyworms (to 3rd instar), Bean Leaf Beetles, Corn Earworms and Grasshoppers - 1 pint per acre. (Do not apply within 20 days of harvest. Do not apply more than twice per growing season.)

SPINACH: Aphids, Armyworms, Mites and Seedcorn Maggot (in crown) - $\frac{1}{2}$ to 1 pint per acre. (Do not apply within 14 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 2 pints.) Cabbage Loopers and Plant Bugs - 1 pint per acre. (Do not apply within 14 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 2 pints.)

STRAWBERRIES: Aphids - $\frac{1}{2}$ to $\frac{3}{4}$ pint per acre. (Do not apply within 14 days of harvest.) Mites - $\frac{3}{4}$ pint per acre. (Do not apply within 14 days of harvest.)

SUGAR BEETS: Armyworms, Fall Armyworms, Cutworms (including Climbing Cutworms), Flea Beetles, Grasshoppers, Leafhoppers, Mites and Sugar Beet Webworms - $\frac{1}{4}$ to $\frac{3}{8}$ pint per acre. (Do not apply within 60 days of harvest through $\frac{1}{4}$ pint (if tops are to be fed to livestock).) Aphids - $\frac{3}{8}$ pint per acre. (Do not apply within 20 days of harvest through $\frac{1}{4}$ pint. (roots).) Lygus Bugs, Stink Bugs and Webworms - $\frac{3}{8}$ pint per acre. (Do not apply within 60 days of harvest through $\frac{1}{4}$ pint (if tops are to be fed to livestock).)

SUNFLOWERS: Sunflower Moths - 1 pint per acre. (Do not apply within 30 days of harvest. Do not apply more than 3 times at 5-day intervals per season.)

VETCH: Aphids, Alfalfa Weevil (larvae), Leafhoppers and Mites - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest through 2 pints. Do not apply within 20 days of harvest from 2 pints through $2\frac{1}{2}$ pints.) [For Alfalfa Weevil (larvae) - Apply when 75% of terminals show feeding, when buds and shoots appear ragged, or when the larval count reaches 25 per sweep.] Armyworms - $\frac{1}{4}$ to $1\frac{1}{2}$ pints per acre. (Do apply within 15 days of harvest through 2 pints. Do not apply within 20 days of harvest from 2 pints through $2\frac{1}{2}$ pints.) Climbing Cutworms, Lygus Bugs and Vetch Bruchids - $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest through 2 pints. Do not apply within 20 days of harvest from 2 pints through $2\frac{1}{2}$ pints.)

WHEAT: Brown Wheat Mites - $\frac{1}{8}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{2}$ pint through $1\frac{1}{2}$ pints.) Aphids (including Greenbug) - $\frac{1}{8}$ to $\frac{1}{4}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{2}$ pint through $1\frac{1}{2}$ pints.) Barley Thrips - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{2}$ pint through $1\frac{1}{2}$ pints.) Leafhoppers - $\frac{1}{4}$ to $\frac{1}{2}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{2}$ pint through $1\frac{1}{2}$ pints.) Armyworms (to 3rd instar), Winter Grain Mites and Stink Bugs - $\frac{1}{4}$ to $\frac{3}{4}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{2}$ pint through $1\frac{1}{2}$ pints.) Climbing Cutworms - $\frac{3}{8}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{2}$ pint through $1\frac{1}{2}$ pints.) Chinch Bugs, False Chinch Bugs and Say Stink Bugs - $\frac{1}{4}$ pint per acre. (Do not apply within 15 days of harvest from $\frac{1}{2}$ pint through $1\frac{1}{2}$ pints.)

ORNAMENTALS: (Woody Shrubs, Trees and Vines), Christmas Tree Plantation (Pines), European Pine Shoot Moth and Nantucket Pine Tip Moth - 1 pint per acre. (Apply in 5 to 50 gallons of water.)

PINE FORESTS: European Pine Shoot Moth and Nantucket Pine Tip Moth - 1 pint per acre. (Apply in 5 to 50 gallons of water.)

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METHYL PARATHION MIXTURE LIQUID

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U.S. GALLONS