

PM19

5905-528

6-3-97

14/16



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JUN 03 1997

Judy Oldham
Helena Chemical Company
6705 Poplar Avenue, Suite 500
Memphis, Tennessee 38119

Dear Ms. Oldham:

Subject: Labeling Amendment
4 lb. Methyl Parathion
EPA Reg. No. 5905-528
Your submission dated March 17, 1997

The labeling amendment referred to above submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, has been received and reviewed, and the following are the Agency's comments:

1. All products distributed or sold under 4 lb. Methyl Parathion EC (EPA Reg. No. 5905-528) must be packaged in labeled containers bearing a unique identification number that will remain on the label or container at all times.
2. The label you submitted is acceptable providing you make the following changes and/or address the following comments:
 - a. Change the application rate for treatment of leafhoppers and armyworms (to 3rd instar) on Rye and Wheat from 2 ½ to 1 ½ pints.
3. Submit three copies of the revised final printed label for the record.

A stamped copy of the labeling is enclosed for your records.

Sincerely,

A handwritten signature in cursive script, appearing to read "Larry Fried".

Larry Fried
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosures

2716

RESTRICTED USE PESTICIDE

Due to Very High Acute Toxicity to Humans and Birds

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. Direct supervision for this product is defined as the certified applicator being physically present during application, mixing, loading, repair and cleaning of application equipment. Commercial certified applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.

4 LB. METHYL PARATHION
EMULSIFIABLE INSECTICIDE CONCENTRATE

ACTIVE INGREDIENT:

0,0-dimethyl 0-p-nitrophenyl phosphorothioate* 43.40%
Related Compounds 1.71%

INERT INGREDIENTS:..... 54.89%

TOTAL 100.00%

1 gallon of 4 LB. METHYL PARATHION contains 4 pounds of Methyl Parathion.

*Methyl Parathion.

DANGER
PELIGRO

POISON

KEEP OUT OF REACH OF CHILDREN
ORGANOPHOSPHATE

CAN KILL YOU IF SWALLOWED: This product can kill you if swallowed even in small amounts; spray mist may be fatal if swallowed.

CAN KILL YOU BY SKIN CONTACT: This product can kill you if touched by hands or spilled or splashed on skin, in eyes or on clothing (liquid goes through clothes).

CAN KILL YOU IF BREATHED: This product can kill you if vapor, spray mist are breathed.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

SPECIAL INSTRUCTIONS FOR RESTRICTED USE PESTICIDE RETAILERS: In addition to any other required records, restricted use pesticide retailers must record at the time of sale the unique container identification number on this label or container and the identity of the purchaser of the container.

EPA REG. NO. 5905-528

NET CONTENTS:

EPA EST. NO.: First letters of product
batch code indicate producing establishment

5905-GA-1=CG. 5905-AR-1=WA.

5905-CA-1=KC. 5905-IA-1=DI

ACCEPTED
with COMMENTS
in EPA Letter Dated

JUN 03 1997

MANUFACTURED BY:
HELENA CHEMICAL COMPANY
MEMPHIS, TN 38119

Bar Code or
unique identify-
ing number

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

5905-528

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER
WORKER SAFETY RULES

The National Pesticide Telecommunication Network is available for recommendations regarding poisoning management, emergency treatment, and other information regarding the toxicity of methyl parathion. The toll free number for the National Pesticide Telecommunication Network is 1-800-858-7378.

If handled indoors, provide mechanical exhaust ventilation. Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See First Aid Section.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate or Viton ≥ 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading

For exposure in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MCHA/NIOSH approval number prefix TC-14G)

For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in WPS.

DURING AERIAL APPLICATION HUMAN FLAGGERS ARE PROHIBITED.

USER SAFETY RECOMMENDATIONS

- Users should:
- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
 - Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
 - Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

POISON SIGNS (SYMPTOMS): Methyl Parathion is a very dangerous poison. It rapidly enters the body on contact with all skin surfaces and eyes. 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.

FIRST AID

This product contains an organophosphate and is a cholinesterase inhibitor.

Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to methyl parathion and describe his condition. After first aid is given and if a doctor cannot come, take victim to clinic or hospital.

IF BREATHING HAS STOPPED, start artificial respiration immediately and maintain until doctor sees victim.

IF SWALLOWED, drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

IN CASE OF CONTACT, immediately flush eyes or skin with plenty of water. See doctor immediately.

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.** Methyl 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.**

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to aquatic invertebrates and wildlife. Birds in treated areas may be killed. Shrimp and other aquatic organisms may be killed at recommended application rates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark unless otherwise permitted in Directions for Use. Runoff and drift may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

COMBUSTIBLE

**DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME
NOT FOR USE OR STORAGE IN OR AROUND THE HOME.**

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is :

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate or Viton ≥ 14 mils.
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to methyl parathion and describe his condition. For further information, see the FIRST AID portion of the pesticide label.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Do not store under conditions which might adversely affect the container or its ability to function properly.

STORAGE: Do not store below 0°F. Store in a safe manner. Do not use or store near heat, open flame or hot surfaces. Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment listed under "PRECAUTIONARY STATEMENTS" when handling open containers. Carefully open containers. Do not put concentrate or dilute material into food or drink containers.

SPIILLED MATERIAL: Block or dike to prevent spreading of spill. Cover with absorbent material such as lime, clay or sawdust. Scoop and sweep into a disposable container. Wash area with strong lye solution, absorb and place into a disposable container.

PESTICIDE DISPOSAL

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Wastes representative at the nearest EPA Region Office for guidance.

CONTAINER DISPOSAL

Returnable/Refillable Seal Container: Do not break seals or add any material to the container. Do not rinse container or empty any residue from container. This container must be returned intact after use to the point of purchase.

DIRECTIONS

Be sure to read the precautionary statements before using! This product is designed for application after dilution with water and for use by trained operators using airplane or power ground equipment. The hazards and precautions for handling the product in this container are equally applicable to it after dilution with water for spray application.

REMOVAL OF PRODUCT FROM CONTAINER

This container is fitted with the MICRO MATIC "DV" liquid transfer valve system. To remove product, use the MICRO MATIC coupler attachment which is available from the seller of this container. The directions below must be followed:

To Connect Coupler:

1. Attach pump hose to chemical pump.
2. Attach pump hose to coupler.
3. With coupler handle in disengaged position, insert coupler straight down into the drum valve, ensuring that the pins on the coupler align with the slots on the valve.
4. Turn coupler handle clockwise a quarter turn, until it locks into place.
5. Push down coupler handle to engage, ensuring that the lock bar clicks into place.

To Disconnect Coupler:

1. Press down on coupler and disconnect the lock bar. Allow coupler handle to raise to its disengaged position.
2. Turn Coupler handle counter clockwise and quarter turn. Lift coupler straight up.

If you have any questions or need assistance, please call your Distributor or 1-800-548-6113.

Add the concentrate to the spray tank while filling with water, and mix thoroughly either by means of a tank agitator or pump by-pass. For best results, thoroughly cover all surfaces to be treated with spray. Rates of application given below should not be exceeded. Never apply later than indicated to assure residue levels at harvest are below tolerance established by the Environmental Protection Agency.

Consult the State Agricultural Extension Service or Experiment Station for specific recommendations regarding application, dosage and timing of spray. For application by ground equipment, add the

desired amount of concentrate to sufficient water to apply at least 3 gallons of water per acre. For application by aircraft, add the amount of concentrate desired per acre to 1 to 3 gallons of water consistent with crop growth and good coverage.

Do not use in undiluted form.

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

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

ALFALFA: Flea Beetles, Climbing Cutworms, - Apply 1/2-1 pint per acre. Aphids (including Pea Aphids and Spotted Alfalfa Aphid) - Apply 1/2-1 pint per acre. For Spotted Alfalfa Aphid, apply early in spring. Alfalfa Weevil (larvae) - Apply 1/2-1 pint per acre. Apply when 75% terminals show feeding, when buds and shoots appear ragged, or when the larval count reaches 25 per sweep. Webworms, Clover Leaf Weevil, Alfalfa Caterpillar, Armyworms, Alfalfa Weevil (adult) (Refer also to Egyptian Weevil) Thrips and Grasshoppers - Apply 1 pint per acre. Egyptian Alfalfa Weevil, Leafhoppers, Lygus Bugs, Mites, Stink Bugs, and Spider Mites - Apply 1-2 pints per acre. Do not apply within 15 days of harvest. Alfalfa Seed Chalcid - Apply 1 1/2-2 1/2 pints per acre. Plant Bugs (for use on seed crops only) - Apply 1/2-1 pint per acre. Do not apply within 15 days of harvest, cutting or grazing. In California and Nevada, do not use more than 3/4 pint per acre. Do not apply if the crops or weeds in the treatment area are in bloom.

BARLEY: Thrips - Apply 1/2-1 1/2 pints per acre. Leafhopper, Cutworms (Climbing) - Apply 3/4 to 1 pint per acre. Stink Bugs, Armyworm (to 3rd instar), Black Grass Bugs, Aphid (including Greenbug), Winter Grain Mites - Apply 1/2-1 1/2 pints per acre. Apply early spring for greenbug control. Say's Plant Bugs, Spider Mites, False Chinch Bug, Grasshopper, Chinch Bugs - Apply 1 1/2 pints per acre. Western Wheat Mites, Brown Wheat Mites - 1 pint. Do not apply within 15 days of harvest.

BEANS (DRY AND GREEN): Leafhoppers, Flea Beetles, Plant Bugs (including Lygus Bugs), Aphids, Armyworms (to 3rd Instar), Mites - Apply 1-3 pints per acre. Cabbage Looper - Apply 2 pints per acre. Stink Bugs, Cowpea Curculio, Cutworms (including climbing and surface feeding species) - Apply 2-3 pints per acre. Do not apply within 15 days of harvest. For green and lima beans, do not apply within 15 days of harvest for application rates through 1 pint, Do not apply within 21 days of harvest for dosage rates exceeding 1 pint per acre. DO NOT apply if the crop or weeds in the treatment area are in bloom.

BEETS: Mites, Aphids, Armyworms, Flea Beetles, Leafhopper, Grasshoppers, Sugar Beet Webworms - Apply 1-2 pints per acre. Stink Bugs, Plant Bugs (including Lygus Bugs), Cabbage Looper - Apply 2 pints per acre. Do not apply within 20 days of harvest. Do not apply within 60 days if tops are to be fed to animals.

BROCCOLI: Thrips - Apply 1/2-1 pint per acre. Aphids, Armyworms, Flea Beetles, Leafhopper, Mites - Apply 1-3 pints per acre. Imported Cabbageworms, Cabbage Looper, Stink Bugs - Apply 2-3 pints per acre. Plant Bugs - Apply 2 1/2 pints per acre. Do not apply within 7 days of harvest through 1 pint, within 21 days of harvest from 1 pint through 3 pints.

BRUSSELS SPROUTS: Aphids, Armyworms, Thrips, Flea Beetles, Leafhoppers, Mites - Apply 1-3 pints per acre. Imported Cabbageworms, Cabbage Looper, Stink Bugs - Apply 2-3 pints per acre. Plant Bugs - Apply 2½ pints per acre. Do not apply within 7 days of harvest through 1 pint, within 21 days of harvest from 1 pint through 3 pints.

CABBAGE: Aphids, Armyworms, Flea Beetles, Leafhoppers, Mites - Apply 1-3 pints per acre. Imported Cabbageworms, Cabbage Looper, Stink Bugs - Apply 2-3 pints per acre. Plant Bugs - Apply 2½ pints per acre. Do not apply within 10 days of harvest through 1 pint, within 21 days of harvest from 1 pint through 2½ pints.

CARROTS: Aphids, Armyworms, Flea Beetles, Leafhoppers, Mites - Apply 1-2 pints per acre. Cutworms (surface feeding and climbing), Cabbage Looper, Plant Bugs - Apply 2 pints per acre. Do not apply within 15 days of harvest. DO NOT use treated carrot tops for food or feed.

CAULIFLOWER: Aphids, Armyworm, Flea Beetles, Leafhopper, Mites - Apply 1-3 pints per acre. Imported Cabbageworm, Cabbage Looper, Stink Bugs - Apply 2-3 pints per acre. Plant Bugs - Apply 3 pints per acre. Do not apply within 7 days of harvest through 1 pint, within 21 days of harvest from 1 pint through 3 pints.

CELERY: Aphids, Armyworms, Flea Beetles, Leafhoppers, Mites, Lygus Bugs, Cabbage Looper, Plant Bugs, Stink Bugs - Apply 2 pints per acre. Do not apply within 15 days of harvest.

CLOVER: Leafhopper, Armyworm, Aphids (including Spotted Alfalfa Aphid) (apply early in the spring), 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) - Apply 1-1½ pints per acre. Egyptian Alfalfa Weevil - Apply 1-2 pints per acre. Do not apply within 15 days of harvest. Clover Seed Chalcid (for use on seed crops only), Climbing Cutworm - Apply ½-2½ pints per acre. Plant Bugs (for use on seed crops only) - Apply ½-1 pint per acre. Do not apply within 15 days of harvest from 1 pint through 2 pints. Do not apply within 20 days of harvest from 2 pints through 2½ pints per acre.

COLLARDS: Aphids, Armyworms, Flea Beetles, Leafhopper, Mites - Apply 1-3 pints per acre. Imported Cabbageworm, Cabbage Looper, Stink Bugs, Thrips - Apply 2-3 pints per acre. Plant Bugs - Apply 3 pints per acre. Do not apply within 10 days of harvest through 1 pint. Do not apply within 21 days of harvest from one pint through 3 pints per acre.

CORN: Aphids (including corn leaf aphid), Armyworm, Fall Armyworm, Corn Rootworm (including western corn rootworm) (adults), Flea Beetles, Mites, Stink Bugs - Apply ½ pint per acre. Grasshoppers - 1 pint per acre. Do not apply within 12 days of harvest. Do not apply to corn during the pollen shed period.

COTTON: Thrips (apply before or during the 4-leaf stage and repeat 1 to 3 times at 7 to 10 day intervals), Fleahoppers (including cotton fleahopper) - Apply ¼ to 1 pint per acre. Grasshopper, Fall Armyworm (to 3rd instar), Aphids (including cotton aphid) (apply when aphics appear in buds and on leaves of seedlings or when honeydew appears on older plants), Cotton Leafworm, Garden Webworm - Apply ½-6 pints per acre. Lygus Bugs, Mites, Spider (including desert

spider mite and two-spotted spider mites) - Apply 1/2-2 pints per acre. **Southern Green Stink Bug, False Chinch Bug** - Apply 1 pint per acre. **Leafroller, Cabbage Looper, Cotton Leaf-Perforator, Cutworms**, - Apply 1-2 pints per acre. **Stink Bugs** - Apply 2 pints per acre. **Armyworms** - Apply 2-4 pints per acre. **Bollworm, Saltmarsh Caterpillar**, - Apply 2 1/2-6 pints per acre. **Tobacco Budworm** - Apply 2 pints per acre. Do not handpick within 7 days of application through 2 pints per acre. **Boll Weevil** - Apply 1-6 pints per acre. For early season control of overwintering boll weevils, apply as early as the 2-to-4 leaf stage and repeat 1-3 times at 7-10 day intervals. For midseason control, apply at the start of squaring or after 10-25% 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. **Boll Weevil (Texas only)** - For the control of boll weevils apply 1/2-1 pint (.25 to 0.5 lb. active ingredient) per acre in a minimum of 1 quart of once refined vegetable oil (such as soybean/cottonseed). For overwintered adults, apply early season as needed. Apply mid to late season as needed. High rates are required for severe infestation and late season. Aircraft should be outfitted with a delivery system designed to apply droplets with a VMD of 100-200 microns. Swath width should not exceed wing span plus 10 percent. When using conventional hydraulic nozzle systems, the nozzles should be oriented 90 degrees to the laminar airflow. **Note:** When temperatures are 70° F or below, keep the spray mixture under agitation and do not allow mixture to stand for any long period of time. Do not handpick or harvest within 7 days of application. Do not feed forage or gin trash to livestock.

GRASS (HAY, PASTURE) (FORAGE): Armyworm (to 3rd instar), Crested Wheat Bugs, Black Grass Bugs (including Irbisia), False Chinch Bugs, Grasshoppers, Leafhoppers - Apply 1 1/2 pints per acre. For aphids, apply 1/2 pint per acre. **Range Caterpillars** - 1 pint per acre. Do not apply within 15 days of harvest or grazing.

KALE: Aphids, Armyworms, Flea Beetles, Leafhoppers, Mites - Apply 1-3 pints per acre. **Imported Cabbageworm, Cabbage Looper, Stink Bugs** - Apply 2-3 pints per acre. **Plant Bugs** - Apply 3 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.

LETTUCE: Aphids, Armyworms, Flea Beetles, Imported Cabbageworm, Leafhoppers, Mites, Cabbage Looper, Plant Bugs - Apply 2 pints per acre. Do not apply within 21 days of harvest.

MUSTARD GREENS: Aphids, Armyworms, Flea Beetle, Leafhoppers, Mites - Apply 1-3 pints per acre. **Imported Cabbageworm, Cabbage Looper, Stink Bugs** - Apply 2-3 pints per acre. **Plant Bugs** - Apply 3 pints per acre. Do not apply within 10 days of harvest through 1 pint, or within 21 days of harvest from above 1 pint through 3 pints.

OATS: Brown Wheat Mites, Western Wheat Mites - Apply 1 pint per acre. **Aphids (including greenbug), Black Grass Bugs (including Irbisia), Stink Bugs** - 1/2-1 1/2 pints per acre. **Barley Thrips** - 1/2-3/4 pints per acre. **Climbing Cutworms, Grasshoppers** - 3/4 - 1 pint per acre. **Leafhoppers, Armyworm (to 3rd instar)** - 1 1/2 pints per acre. **Winter Grain Mites, Stink Bugs** - 1/2-1 1/2 pints per acre. **Say's Plant Bugs, Chinch Bugs, False Chinch Bug and Fall Armyworm** - 1 1/2 pints per acre. Do not use more than 1/2 pint per acre within 15 days of harvest.

ONIONS: Thrips (including onion thrips) - 1/2-1 pint per acre. Do not apply within 15 days of harvest.

PASTURE: (Irrigated) (Refer also to Grass): Mosquitoes (Larvae) - Apply 1/8 pint per acre. Do not apply within 7 days of harvest. Broadcast application.

PEAS: Aphids, Armyworm (to 3rd instar), Flea Beetles, Leafhoppers, Mites, Plant Bugs (including Lygus Bugs) - Apply 1-2 pints per acre. Stink Bugs, Cowpea Curculio, Cutworm (including climbing and surface feeding species), Cabbage Looper - Apply 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 2 pints. DO NOT apply if the crop or weeds in the treatment area are in bloom.

POTATOES: Aphids, Flea Beetles, Armyworm, Leafhoppers, Mites, False Chinch Bugs, Cabbage Looper, Plant Bugs (including Lygus Bugs), Stink Bugs, Shield Bugs - Apply 3 pints per acre. Thrips - Apply 1 1/4 pints per acre. Do not apply within 6 days of harvest.

RAPESEED/CANOLA: Cabbage Seedpod Weevil - 1 pint per acre. Make first application when two or more insects can be found per plant on young pods. Flea Beetles, Cabbage Aphids - 1 pint per acre. Treat in early season when significant evidence of shot holing by the adults becomes evident on the seedlings. Diamondback Moth Larvae - 1 pint per acre. Treat about mid-growing season when populations reach damaging levels and there is evidence of appreciable feeding beginning on the flowers and/or pods.

Do not apply within 28 days of harvest. DO NOT graze treated fields or feed treated forage or threshings to livestock. Apply by ground or air in sufficient water for coverage (minimum of 3 gallons per acre by air). Do not apply more than two applications per season.

To protect pollinators, apply only in the evening or early morning (this includes a period from 3 hours before sunset until 3 hours after sunrise of the following day) NOTE - IN OREGON - apply product only in the evening (this includes a period from 3 hours before sunset until midnight of the same day). DO NOT APPLY IN IDAHO AND WASHINGTON STATE. Pesticide applicators in Idaho and Washington MUST refer to supplemental labeling exclusive to your state. If this supplemental labeling cannot be found at the end of this booklet, you can obtain it by calling Helena Chemical at (901) 752-4420 and a copy will be faxed or mailed to you directly.

RICE: Stink Bugs, Armyworms - Apply 1-1 1/2 pints per acre. Grasshoppers - 1 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, Tadpole Shrimp - Apply 1 1/2 pints per acre. Use restricted to California. Apply at first sign of infestation after planting. Apply by air in 5-10 gallons 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.

✓ **RYE: Brown Wheat Mites, Western Wheat Mites - Apply 1 pint per acre. Barley Thrips - 1/2-3/4 pint per acre. Leafhoppers, Armyworm (to 3rd instar) - Apply 2 1/2 pints per acre. Climbing Cutworms, Grasshoppers - 3/4-1 pint per acre. Aphids (including greenbug), Black Grass Bugs (including Irbisia), Winter Grain Mites, Stink Bugs - 1/2-1 1/2 pints per acre. False Chinch Bug, Say's Stink Bugs, Chinch Bug - 1 1/2 pints per acre. Do not use more than 1/2 pint per acre within 15 days of harvest.**

SOYBEANS: Climbing Cutworms, Three-cornered Alfalfa Hopper, Webworm (including Garden Webworm), Aphids, Blister Beetles, Mexican Bean Beetles, Stink Bugs, Thrips, Velvetbean Caterpillar, Two Spotted Mites - Apply $\frac{3}{4}$ -2 pints per acre. Green Cloverworm, Cabbage Looper - Apply 1-2 pints per acre. Armyworm, Fall Armyworm (to 3rd instar), Bean Leaf Beetle, Corn Earworm, Grasshoppers, Bollworms - Apply 2 pints per acre. Plant Bugs (for use on seed crops only) - Apply $\frac{1}{2}$ -1 pint per acre. Do not apply within 20 days of harvest or grazing.

SPINACH: Aphids, Armyworms, Mites, Flea Beetles, Leafhoppers, Seed Corn Maggot (in crown), Crown Mites - Apply 1-2 pints per acre. Cabbage Looper, Plant Bugs - Apply 2 pints per acre. Do not apply within 15 days of harvest through 1 pint. Do not apply within 21 days of harvest from 1 pint through 2 pints.

SUGAR BEETS: Armyworm, Fall Armyworm, Cutworm (including Climbing Cutworms), Flea Beetles, Grasshoppers, Leafhoppers, Sugar Beet Webworms, Mites - Apply $\frac{1}{2}$ - $\frac{3}{4}$ pint per acre. Lygus Bugs, Stink Bugs, Webworms - $\frac{3}{4}$ pints per acre.) Aphids - Apply $\frac{3}{4}$ pints per acre. Do not apply within 20 days of harvest; 60 days if tops are to be fed to animals.

SUNFLOWERS: Sunflower Moth, Sunflower Maggot, Sunflower Seed Weevil - Apply 2 pints per acre. Do not apply within 30 days of harvest. Do not apply more than 3 times at 5-day intervals per season. Do not feed seeds to birds.

SWEET POTATOES: Aphids, Armyworm (to 3rd instar), Cutworms (including climbing and surface feeding species,) Flea Beetles, Leafhoppers, Cabbage Looper, Spider Mites - Apply $1\frac{1}{2}$ pints per acre. Do not apply within 6 days of harvest.

TURNIPS: Aphids (including Cabbage Aphid), Armyworms (to 3rd instar), Flea Beetles, Leafhoppers, Leafminer, Mites - Apply $1-1\frac{1}{2}$ pints per acre. Imported Cabbage Worm, Cabbage Looper, Plant Bugs - Apply $1\frac{1}{2}$ pints per acre. Do not apply within 10 days of harvest through $\frac{1}{2}$ pint (roots). Do not apply within 21 days of harvest from 1 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.

VETCH: Alfalfa Weevil (larvae) - Apply $\frac{1}{2}$ -1 pint per acre. Apply when 75% of terminals show feeding, when buds and shoots appear ragged, or when the larval count reaches 25 per sweep. Aphids, Leafhoppers, Mites - $\frac{1}{2}$ -1 pint per acre. Climbing Cutworms, Lygus Bugs, Vetch Bruchid - 1 pint per acre. Armyworm - $\frac{1}{2}$ - $2\frac{1}{2}$ pints 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, Western Wheat Mites - Apply 1 pint per acre. Barley Thrips - Apply $\frac{1}{2}$ - $\frac{3}{4}$ pints per acre. Leafhoppers, Armyworm (to 3rd instar) - Apply $2\frac{1}{2}$ pints per acre. Climbing Cutworms, Grasshoppers - Apply $\frac{3}{4}$ -1 pint per acre. Aphids (including Greenbug),

Black Mites, Stink Bugs, Winter Grain Mites - Apply 1/2-1 1/2 pints per acre. Say's Plant Bugs, Chinch Bugs, False Chinch Bug, Fall Armyworm - 1 1/2 pints per acre. Do not use more than 1/2 pint per acre within 15 days of harvest.

NONAGRICULTURAL LAND, WASTELANDS: Mosquitoes (larvae) - Apply 1/5 pint per acre. Do not apply within 7 days of harvest through 1/5 pint. For use by mosquito abatement districts and official government agencies only. Repeat as needed. Toxic to fish and wildlife. Do not use where shrimp and crabs are an important resource. Do not use in any estuaries, or coastal or tidal areas along the southeast, Atlantic or Gulf coasts of the United States.

ATTENTION: Do not use in any manner other than recommended on this label. To avoid excessive residues of methyl parathion on food or forage crops, always observe the statements found under "DIRECTIONS FOR USE" limiting the time before harvest when methyl parathion may be applied.

**CONDITIONS OF SALE - LIMITED WARRANTY
AND LIMITATIONS OF LIABILITY AND REMEDIES**

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man, or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other recovery of any kind against the Company exceed the price of the product which causes the alleged loss, damage, injury, or other claim. The Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income.

The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability, and remedies.

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

RESTRICTED USE PESTICIDE - Due to very high acute toxicity to Humans and Birds
For retail sale to and use by certified applicator or persons under their direct supervision and only for those uses covered by the certified applicator's certification. Direct supervision for this product is defined as the certified applicator being physically present during application, mixing, loading, repair and cleaning of application equipment. Commercial certified applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.

SUPPLEMENTAL LABELING

READ AND FOLLOW THE ENTIRE LABEL BOOKLET FOR 4 LB. METHYL PARATHION EMULSIFIABLE CONCENTRATE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING

Label as used in this supplemental labeling refers to the product label for 4 Lb. Methyl Parathion and this supplement.

4 LB. METHYL PARATHION EMULSIFIABLE CONCENTRATE

EPA REG. NO. 5905-
FOR APPLICATION TO RAPESEED/CANOLA IN WASHINGTON STATE ONLY

KEEP OUT OF REACH OF CHILDREN

**DANGER
PELIGRO**

POISON

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail).

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. All applicable directions, restrictions, and precautions on the EPA registered label are to be followed. This label must be in the possession of the user at the time of insecticide application.

See "DIRECTIONS FOR USE" and all general information on the Methyl Parathion 4 EC label for essential product performance information.

This label restricts use to Canola/Rapeseed oil seed varieties only.

CANOLA/RAPESEED: For control of **Cabbage Seedpod Weevil** (*ceutorhynchus assimilis*), **Flea Beetle** (*phyllotreta sp.*), **Diamondback Moth** (*Plutella xylostella*) and **Cabbage Aphids** (*Brevicoryne sp.*), apply 1 pint per acre by ground or air in sufficient water for coverage (minimum of 3 gallons per acre by air). Do not apply more than two applications per season.

(A) Except as provided in (B) below, this product cannot be applied to blossoming canola except under the following conditions:

- 1.) The field to be treated is at the end of the blossom period with no more than 25% bloom remaining.
- 2.) The application may only be made in the evening from three hours before sunset to midnight, and only if bees are not foraging in the field to be treated at time of application and are not expected to be foraging in the treated field for the remainder of that day.

(B) The Washington State Department of Agriculture has defined areas within Walla Walla and

Columbia counties in which it feels honey bees are at risk from Methyl Parathion application. Do not apply this product to blossoming canola in these areas except under the following conditions:

- 1) The field to be treated is at the end of the blossom period with not more than 10% bloom remaining.
- 2) The application may only be made in the evening from three hours before sunset to midnight, and only if bees are not foraging in the field to be treated at time of application and are not expected to be foraging in the treated field for the remainder of the day.
- 3) The field to be treated must be inspected immediately prior to the application to ensure bees are not foraging.
- 4) The Washington State Department of Agriculture must be notified of such an application one day prior to the expected application day. Notification must include the name and phone number of the grower, name and phone number of the applicator and the location of the canola field to be treated. Notify the department by calling (509) 527-4130 or by faxing the information to (509) 529-9771.

Maps of these areas can be obtain from the Washington State Department of Agriculture by calling (509) 527-4130 or (360) 902-2030.

For **Flea Beetle** and **Aphids** treat in early season when significant evidence of shotholing by the adults become evident on the seedlings.

For **Diamondback Moth larvae**, treat about mid-growing season when populations reach damaging levels and there is evidence of appreciable feeding beginning on the flowers and/or pods.

Do not apply this product through any type of irrigation system. Do not apply this product within 28 days of harvest. Do not graze treated field or feed treated forage or threshing to livestock. The restricted entry interval is 48 hours.

Please read "ATTENTION" and "WARRANTY" sections at the end of the 4 Lb. Methyl Parathion label before using product. Those terms apply to this supplemental labeling also.

MANUFACTURED BY:
HELENA CHEMICAL COMPANY
MEMPHIS, TN 38119

RESTRICTED USE PESTICIDE - Due to very high acute toxicity to Humans and Birds
 For retail sale to and use by certified applicator or persons under their direct supervision and only for those uses covered by the certified applicator's certification. Direct supervision for this product is defined as the certified applicator being physically present during application, mixing, loading, repair and cleaning of application equipment. Commercial certified applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.

SUPPLEMENTAL LABELING

READ AND FOLLOW THE ENTIRE LABEL BOOKLET FOR 4 LB. METHYL PARATHION EMULSIFIABLE CONCENTRATE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING

Label as used in this supplemental labeling refers to the product label for 4 Lb. Methyl Parathion and this supplement.

4 LB. METHYL PARATHION EMULSIFIABLE CONCENTRATE

EPA REG. NO. 5905-
FOR APPLICATION TO RAPESEED/CANOLA IN IDAHO ONLY

KEEP OUT OF REACH OF CHILDREN

**DANGER
PELIGRO**

POISON

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. All applicable directions, restrictions, and precautions on the EPA registered label are to be followed. This label must be in the possession of the user at the time of insecticide application.

See "DIRECTIONS FOR USE" and all general information on the 4 Lb. Methyl Parathion label for essential product performance information.

This label restricts use to Canola/Rapeseed oil seed varieties only.

CANOLA/RAPESEED: For control of **Cabbage Seedpod Weevil** (*ceutorhynchus assimilis*), **Flea Beetle** (*phyllostreta* sp.), **Diamondback Moth** (*Plutella xylostella*) and **Cabbage Aphids** (*Brevicoryne* sp.), apply 1 pint per acre by ground or air in sufficient water for coverage (minimum of 3 gallons per acre by air). Do not apply more than two applications per season.

For **Cabbage Seedpod Weevil** and **Cabbage Aphid**, make first application when two or more insects may be found per plant on young pods. **4 Lb. Methyl Parathion** should be applied when 10% of the bloom is remaining, or when most of the early developed pods are 1.00 - 1.25 inches in length.

For **Flea Beetle** treat in early season when significant evidence of shotholing by the adults becomes evident on the seedlings.

For **Diamondback Moth larvae**, treat about mid-growing season when populations reach damaging levels and there is evidence of appreciable feeding beginning on the flowers and/or pods.

Do not apply this product through any type of irrigation system.

To protect pollinators, apply only in the evening or early morning (this includes a period from 3 hours before sunset until three hours after sunrise the following day). Do not apply within 28 days of harvest. Do not graze treated fields or feed treated forage or threshings to livestock.

The restricted entry interval is 48 hours.

Please read the "ATTENTION" and "WARRANTY" sections at the end of the **4 Lb. Methyl Parathion** label before using this product. Those terms apply to this supplemental labeling also.

**MANUFACTURED BY:
HELENA CHEMICAL COMPANY
MEMPHIS, TN 38119**