



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
5905-534

Date of Issuance:  
SEP 3 1999

Term of Issuance: Conditional

Name of Pesticide Product:  
Malathion-Methyl Parathion  
Emulsifiable Liquid

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Helena Chemical Company  
6075 Poplar Avenue, Suite 500  
Memphis, Tennessee 38119-4702

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following label changes before you release the product for shipment:
  - a. Add the phrase "EPA Registration Number 5905-534".
  - b. Provide page number to each page of the label.
  - c. In the Special Local Need (SLN) statement appearing on page 3, delete the

(continued on page 2)

Signature of Approving Official:

Rita Kumar

Date: SEP 3 1999

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Notice of Registration; EPA Registration Number 5905-534.

wording "other than walnuts, sweet potatoes or lentils" so that the sentence reads as stated below. The use of the subject EC product on these crops would not be acceptable as these uses are being maintained for the microencapsulated formulations only. We apologize for the apparent confusion regarding this labeling requirement specified in the Methyl Parathion Agreement.

This product may not be reformulated or used under a State Special Local Need Registration for any uses not specified on this label.

As requested in your letter dated August 27, 1999, the conditions of paragraph 8 of the August 1999 Memorandum of Agreement Between the Environmental Protection Agency and Signatory Registrants Regarding the Registration of Pesticide Products Containing Methyl Parathion (MOA) are accepted by the Agency as conditions of the subject registration.

Failure to comply with any of the conditions of registration set forth in Paragraph 8 of the MOA shall be grounds for cancellation of the affected registration(s) under FIFRA section 6(e).

3. Submit five copies of the revised final printed labeling before you release this product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely,

*Rita Kumar*

Rita Kumar  
Senior Regulatory Specialist  
Insecticide Rodenticide Branch  
Registration Division (7505C)

Enclosure

**RESTRICTED USE PESTICIDE**

**Due to very high acute toxicity to Humans and Birds**

For retail sale to and use only 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.

**MALATHION-METHYL PARATHION**

Emulsifiable Liquid

**ACTIVE INGREDIENTS:**

Malathion (O,O-dimethyl dithiophosphate of diethyl mercaptosuccinate) ...	39.94%
O,O-dimethyl O-p-nitrophenyl phosphorothioate* .....	38.44%
Related Compounds .....	1.50%
<b>INERT INGREDIENTS:</b> .....	<b>20.12%</b>
<b>TOTAL</b> .....	<b>100.00%</b>

Contains 4 lbs. Malathion and 4 lbs. Methyl Parathion per gallon

\*Methyl Parathion

Handwritten initials and date: 9/27/99

**KEEP OUT OF REACH OF CHILDREN**

**DANGER (skull & crossbones) POISON**  
**PELIGRO**

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.)

with COMMENTS in EPA Letter Dated:

**ORGANOPHOSPHATE**

**SEP 3 1999**

**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.

IF IN EYES, immediately flush eyes with plenty of water. See doctor immediately.

IF ON SKIN, wash with plenty of soap and water. Contact a 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.

See additional precautionary statements inside booklet

Under the Federal Insecticide, Fungicide, and Rodenticide Act registered under EPA Reg. No. 5905-534

EPA REG. NO.: 5905-  
EPA EST. NO.:

NET CONTENTS

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

**PRECAUTIONARY STATEMENT  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER**

**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.*

**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. Keep all unprotected persons, children, livestock, and pets 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 immediately. See First Aid section of this label.*

**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), or a NIOSH approved respirator with an organic vapor cartridge or canister with any R, P, or HE prefilter.

For exposures outdoors, a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C or a NIOSH approved respirator with any R, P, or HE prefilter.)

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.

**ENVIRONMENTAL HAZARDS**

This pesticide is highly toxic to aquatic invertebrates, fish and wildlife; and is toxic to aquatic life stages of amphibians. Birds in treated areas 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. Runoff and drift from target areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning 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.

This product may not be reformulated or used under a State Special Local Need Registra-

tion for any uses not specified on this labeling other than walnuts, sweet potatoes or lentils.

**Application by Backpack Sprayer or other Hand-held Sprayer is Prohibited.**

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

**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 5 days in areas where average annual rainfall is less than 25 inches a year and 4 days in areas where average annual rainfall is equal to or greater than 25 inches a year.

Certified crop advisors or persons entering under their direct supervision under certain circumstances may be exempt from the early reentry requirement pursuant to 40 C.F.R. Part 170.

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.

**SPILLED 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 a 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 must 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. Do not use this product for any uses other than those specified on this label.

**COTTON: Cotton Aphid, Boll Weevil, some species of Spider Mites, Fleahoppers, Cotton Leafworm and Thrips** - Use 1/2 to 2 pints per acre depending upon degree of infestation and size of plants. Applications should not be made to cotton within 5 days of hand-picking. **Boll Weevils and Bollworms:** Apply 2 quarts per acre in both early and late season or when the cotton becomes rank or insect infestations are severe. Preharvest interval when using more than 2 pints per acre is seven (7) days.

Applications for control of weevils should begin when insect injury is noted or when punctured squares reach 5% to 10%. Repeat applications on a 5 day schedule. Applications for control of bollworms should be started when eggs are noted and 4 to 5 small worms are found per 100 terminals. Repeat applications on a 5 day schedule. Use 2 pints per acre when bollworm infestation exceeds 10%.

**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.

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