



ACCEPTED
DATE: 11/15/82
BY: [illegible]



NOV 15 1982
Under the Federal Insecticide,
Fungicide, and Rodenticide
Act, as amended, for the use
registered under EPA #
5338-466

HELENA CHEMICAL COMPANY

CORPORATE OFFICE

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5100 Poplar Avenue
Memphis, Tennessee 38137
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RESTRICTED USE PESTICIDE
For Retail Sale to and Use Only by Certified Applicators or
Persons Under Their Direct Supervision and Only for Those Uses
Covered by the Certified Applicator's Certification

METHAM

EMULSIFIABLE CONCENTRATE


ACTIVE INGREDIENTS

*O,O-Dimethyl o-p-nitrophenyl phosphorothioate.....	57.51%
Related Compounds.....	3.02%
** (3-Phenoxyphenyl) methyl \pm) -Cis, trans-3- (2,2-dichloroethenyl) 2,2-dimethyl- cyclopropanecarboxylate.....	12.12%
Aromatic Petroleum Solvents.....	16.50%
INERT INGREDIENTS.....	10.85%
TOTAL	100.00%

*Methyl Parathion

**Permethrin

1 gallon of Helena Metham contains 6 pounds of methyl parathion
and 1.2 pounds of permethrin.

KEEP OUT OF REACH OF CHILDREN
DANGER  POISON
SEE SIDE PANEL FOR
STATEMENT OF PRACTICAL TREATMENT
AND PRECAUTIONARY STATEMENTS

EPA EST. NO. 5905-

EPA REG. NO. 5905-

NET CONTENTS

U.S. GALLONS

Manufactured by
Helena Chemical Company
Memphis, TN 38137

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER - POISON

Poisonous if swallowed, inhaled or absorbed through skin. Do not breathe vapor or spray mist. Do not get in eyes, on skin, or on clothing.

STATEMENT OF PRACTICAL TREATMENT

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

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: Flush eyes with water for at least 15 minutes. Get medical attention.

IF ON SKIN: Wash with soap and water immediately. Remove contaminated clothing and shoes. See doctor immediately.

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.

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. Treat symptomatically.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Birds and other wildlife in treated area may be killed. Do not apply directly to lakes, streams or ponds. 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 or weeds. Do not apply this product or allow it to drift to crops or weeds on which bees are actively foraging. Additional information may be obtained from your Cooperative Extension Service.

PHYSICAL AND CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Workers entering treated fields within 48 hours must wear protective clothing.

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 DIRECTION, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS. KEEP PESTICIDE IN ORIGINAL CONTAINER. USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE EQUIPMENT AND CLOTHING.

- (1) Wear water-proof pants, coat, hat, rubber boots or rubber over-shoes
- (2) Wear safety goggles
- (3) Wear a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30CFR Part 11
- (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 after filter replaced according to instructions included with respirator.

STORAGE AND DISPOSAL

Do not use or store in or around the home. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to Federal or approved State procedures under Subtitle C of the Resource Conservation and Recovery Act.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other approved state and local procedures.

GENERAL DIRECTIONS

Metham is an emulsifiable concentrate which contains 6 lbs Methyl Parathion and 1.2 lbs Permethrin for use on cotton insects. It is suitable for use in conventional hydraulic sprayers and airplane sprayers. For aerial application, apply in a minimum of 1 1/2 gallons of water per acre. By ground, use a minimum of 5 gallons of finished spray per acre.

Apply Metham to cotton as shown in the chart below, using sufficient spray TO OBTAIN FULL COVERAGE OF FOLLIAGE. Timing and frequency of spraying should be based upon insect populations reaching local economic thresholds. Apply as required by scouting reports, usually at 5 to 7 day intervals. DO NOT apply within 14 days of harvest.

COTTON SPRAY RECOMMENDATIONS

<u>PEST CONTROLLED</u>	<u>DOSAGE PER ACRE</u>	<u>EQUIVALENT RATES</u> <u>LBS/AC/AI</u>
Lygus Bugs, Cabbage Looper, Armyworm, Bollworm, Tobacco Budworm, Boll Weevil*, Pink Bollworm	10.6 fl oz - 21.3 fl oz	Permethrin: 0.1 - 0.2 Methyl Parathion: 0.5 - 1.0
Cotton Leaf Perforator, Whitefly*, Cotton Aphid	10.6 fl oz	Permethrin: 0.1 - 0.2 Methyl Parathion: 0.5 Perethrin: 0.025 - 0.1 Methyl Parathion: .125 - .5
Grasshopper	5.3 fl oz	Permethrin: 0.05 Methyl Parathion: 0.25
Cotton Leafworm, Garden Webworm	5.3 fl oz - 10.6 fl oz	Permethrin: 0.05 - 0.1 Methyl Parathion: 0.25 - 0.5
Southern Green Stink Bug, False Chinch Bug	10.6 fl oz	Permethrin: 0.1 Methyl Parathion: 0.25 - 0.5
Leafroller, Cutworms, Fall Armyworms, Aphids	10.6 fl oz - 21.3 fl oz	Permethrin: 0.1 - 0.2 Methyl Parathion: 0.5 - 1.0
Saltmarsh Caterpillar, Stink Bugs	21.3 fl oz	Permethrin: 0.1 - 0.2 Methyl Parathion: 1.0

*ONLY suppression can be expected when utilized on 5 - 7 day schedule

NOTICE OF WARRANTY

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

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

METHYL PARATHION MIXTURE LIQUID NA-2783

DO NOT RE-USE THIS CONTAINER FOR ANY PURPOSE

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT	
NOTICE OF PESTICIDE: <input type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended.)</i>		
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
NOTE: Changes in labeling formula 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 U.S. 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.		
A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.		
Registration is in no way to be construed as an indorsement or approval of this product by this 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.		
<input type="checkbox"/> ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICIAL		DATE