

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.

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HELENA

3/4-3

EMULSIFIABLE INSECTICIDE CONCENTRATE

For Effective Control of Insects on Cotton and Soybeans

ACTIVE INGREDIENTS

(By Weight)

Guthion (O,Odimethy S-[(4-oxm-1,2,3-benzotriazin 3(4H)-yl) methyl] phosphorodithioate.....	08.01%
Methyl Parathion (O,O-Dimethyl O-p-nitrophenyl phosphorothioate).....	32.00%
Related Compounds.....	1.25%

INERT INGREDIENTS.....	58.74%
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TOTAL.....	100.00%
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(This product contains 3/4 Guthion and 3 lbs. Methyl Parathion per gallon)

POISON

See Side Panels
for Antidote &
Precautions



DANGER

Keep Out of
Reach of
Children

PELIGRO: AL USARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta la haya sido explicado ampliamente.

E.P.A. REG. NO. 5905-247

First letter of Product batch code indicates producing establishment.

5905-FL-1-TF • 5905-GA-1-OG • 5905-AR-1-WA • 5905-OK-1-AO • 5905-TE-2-AT
5905-CA-1-KC • 5905-LA-3-DL

Manufactured by HELENA CHEMICAL COMPANY
Memphis, Tn. 38137

ACCEPTED

NOV 9 1987

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 5905-247

Net Content:

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Precautionary Statements Hazards to Humans And Domestic Animals **DANGER—POISON**



POISONOUS IF SWALLOWED

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



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.

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.

Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to parathion and describe his condition.

✚ 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, 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 for at least 15 minutes while removing contaminated clothing and shoes. See doctor immediately.

NOTE TO PHYSICIAN

Since any symptoms from absorption of this combination product are likely to be those of _____ parathion intoxication, treatment should be directed towards the relief of cholinesterase inhibition.

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.**

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

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to aquatic invertebrates and wildlife. Birds in treated areas may be killed. Do not apply directly to water or wetlands (swamps, bogs, marshes and pot-holes). Runoff and drift from target areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of wastes.

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.

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ENDANGERED SPECIES RESTRICTIONS

The use of any pesticide in a manner that may kill or otherwise harm an endangered or threatened species or adversely modify their habitat is a violation of federal laws. The use of this product is controlled to prevent death or harm to endangered or threatened species that occur in the following counties or elsewhere in their range.

Before using this pesticide in the following counties you must obtain the EPA Cropland Endangered Species Bulletin. The use of this pesticide is prohibited in these counties unless specified otherwise in the Bulletins. The EPA Bulletin is available from either your County Agricultural Extension Agent, the Endangered Species Specialist in your State Wildlife Agency Headquarters or the appropriate Regional Office of either the U.S. Fish and Wildlife Service (FWS) or the U.S. Environmental Protection Agency. THIS BULLETIN MUST BE REVIEWED PRIOR TO PESTICIDE USE.

STATE (Regional Office FWS) Species	COUNTY		
CALIFORNIA (Portland, OR.) Aleutian Canada goose	COLUSA	SUTTER	
	MERCED	STANISLAUS	
	Blunt-nosed leopard lizard	FRESNO	MONTEREY
		KERN	SAN LUIS OBISPO
		KINGS	SANTA BARBARA
		MADERA	STANISLAUS
	DELTA green ground beetle	SOLANO	TULARE
	Kern primrose sphinx moth	KERN	
	Santa Cruz long-toed salamander	MONTEREY	SANTA CRUZ
	Valley elderberry longhorn beetle	MERCED	SACRAMENTO
FLORIDA (Atlanta, GA.) Everglade kite	DADE	PALM BEACH	
	GLADES	BROWARD	
TEXAS (Albuquerque, N.M.) Attwater's greater prairie chicken	ARANSAS	COGLAD	
	AUSTIN	REFUGIO	
	COLORADO	VICTORIA	
	FORT BEND		
	Houston toad	BASTROP	BURLESON
San Marcos salamander	HAYS		
Texas blind salamander	HAYS		

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PHYSICAL OR CHEMICAL HAZARDS

Do not use 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.

RE-ENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas for 48 hours unless appropriate protective clothing is worn.

Protective clothing means, at least, a hat or other suitable head covering, a long sleeved shirt and long legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure. An example of such information is given under written warnings. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

DANGER

Area treated with Methyl Parathion & Guthion on (insert date). Do not enter without appropriate protective clothing for 48 hours (insert State Department of Agriculture's re-entry interval, if more restrictive).

In case of accidental exposure to pesticide spray or dust, wash the skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse. If in eyes, flush with plenty of water. If inhaled, go to an area where the pesticide has not been applied. Get medical attention if needed.

Reentry into treated fields is prohibited for 48 hours after application, unless all protective clothing and equipment required for early reentry as described elsewhere on the label are worn.

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WORK 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 right away, See First Aid (Practical Treatment) section.

HANDLE THE CONCENTRATE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT:

Wear a protective suit of one or two pieces that covers all parts of the body except the head, hands, and feet. Wear chemical resistant gloves, chemical resistant apron, and chemical resistant shoes, shoe coverings, or boots. Wear goggles or a face shield. Wear a pesticide respirator approved by the National Institute for Occupational Safety and Health under the provisions of 30 CFR part II.

USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT DURING MIXING/LOADING, APPLICATION, REPAIR, AND CLEANING OF APPLICATION EQUIPMENT, DISPOSAL OF PESTICIDE AND EARLY REENTRY INTO TREATED AREAS: protective suit of one or two pieces covering all parts of the body except the head, hands, and feet; chemical resistant gloves; chemical resistant shoes (or chemical resistant shoe coverings or chemical resistant boots); goggles or face shield; hood or wide brimmed hat; NIOSH approved respirator.

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IF MIXING/LOADING IS PERFORMED USING A CLOSED SYSTEM, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: long-sleeve shirt; long-legged pants; chemical resistant gloves; chemical resistant apron; shoes and socks. Goggles or face shield must be worn when the system is under pressure. All other protective clothing and equipment required for use with open systems must be available nearby.

IF APPLICATION IS PERFORMED USING AN ENCLOSED CAB OR COCKPIT, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: long-sleeve shirt and long-legged pants; shoes and socks. Chemical resistant gloves must be available in the cab or cockpit and must be worn during entry to and exit from the application vehicle. All other protective clothing and equipment required for use during application must be available in the cab and must be worn when exiting the cab into treated area. When used for this purpose, contaminated clothing may not be brought back into the cab unless in an enclosure such as a plastic bag. REMEMBER—THIS CLOTHING IS INADEQUATE TO PROTECT YOU DURING REPAIR AND CLEANING OF APPLICATION EQUIPMENT AND EARLY REENTRY TO TREATED AREAS! REFER TO PROTECTIVE CLOTHING AND EQUIPMENT REQUIREMENTS ABOVE.

IMPORTANT! If pesticide comes in contact with skin, wash off with soap and water and contact a physician immediately. Always wash hands, face, and arms with soap and water before smoking, eating, drinking, or toileting.

AFTER WORK: before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Wear only clean clothes when leaving job—do not wear contaminated clothing. Personal clothing worn during work must be stored and laundered separately from protective clothing and household articles. Store protective clothing separately from personal clothing. Clean or launder protective clothing after each use. Respirators must be cleaned and filters replaced according to instructions included with the respirators. Protective clothing and protective equipment heavily contaminated or drenched with methyl parathion must be destroyed according to state and local regulations. HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED. DURING AERIAL APPLICATION, HUMAN FLAGGERS ARE PROHIBITED.

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Storage and Disposal

Pesticide Storage

Do not store below 20°F, (-7°C).

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. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call 901-761-0050

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinse 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 Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal

Metal containers- Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic containers- Triple rinse(or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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MIXING: $\frac{3}{4}$ - 3 forms an emulsion when diluted with water and is suitable for use in all power-operated ground sprayers and aircraft sprayers. To mix with water, pour the required amount of product into full amount of water and then agitate.

DOSAGE: Use specified dosage of the spray concentrate in the amount of water necessary to give complete coverage of foliage. The type of equipment used will determine the concentration required.

SPRAY: For best results make applications in late afternoon and when leaves are dry. Work to windward, protect sprayer operator from drift or mist. When low volumes of spray are applied, complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your State Agricultural Experiment Station or Extension Service for specific use information.

RECOMMENDED APPLICATIONS

CROP	INSECT	Plats. - 3 Emulsifiable Insecticide Con.	REMARKS
COTTON	Cotton leafworm Cotton fleahopper Lygus Bugs Rapid plant bug Tarnished plant bug Thrips	$\frac{1}{2}$ to 1	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Cotton receiving late season applications should not be pastured and gin trash from this cotton should not be fed. *For bollworms begin treatment when worms are small and make applications on a 5-day schedule. Under heavy infestations reduce interval to 3-4 days for 2 or more applications. Do not hand pick or harvest within 7 days of application.
	Aphids Mites	$\frac{3}{4}$	
	Boll weevil Grasshoppers Garden webworm Fall armyworm	1 to 1 $\frac{1}{2}$	
	Cabbage looper	2 to 3	
	Stink bugs	2	
	Brown cotton leaf-worm Cotton leaf perforator salt-marsh caterpillar Yellow striped armyworm	2 $\frac{1}{2}$	
	Bollworm* Cutworm	3	
	Pink bollworm	6	
SOYBEANS	Aphids Green cloverworm Stink bugs Cabbage looper	1 $\frac{1}{2}$	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Do not apply more than 2 times per growing season nor within 45 days of harvest. Do not graze or feed treated vines to livestock.
	Bollworm	2 $\frac{1}{2}$	

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LOW VOLUME OR ULTRA LOW VOLUME

FOR USE ON COTTON ONLY

¾-3 may be used for LV or ULV for the control of Boll weevil, Bollworm, Aphid, Cotton leafworm, Southern green stink bug, Rapid plant bug, Lygus bug, Spider mites, Thrips and Leafhoppers.

For LV Application dilute so that ¼ to 10 gal. of spray is delivered per acre. For ULV application use undiluted.

DIRECTIONS FOR USE

EQUIPMENT:

(a) **Ground Equipment:** Use conventional low volume spray equipment with sufficient nozzles and spray pressure to give adequate coverage. Use 4.05 to 5 pints per acre. Pump should have sufficient capacity to give good by-pass to keep spray-mix agitated. Equipment should have a positive cut-off valve, to cut off boom. Equipment should be cleaned before changing products or going into new crops.

(b) **Airplane Equipment: (Conventional Spray Equipment):** Conventional aerial equipment may be used to apply LV concentrate with the following suggestions and modifications.
HEIGHT - 6'-8' or 10'-12' or crop height.

PUMPS - Use pumps capable of producing 40 to 50 p.s.i. A bleed line (1/8 to ¼ inch diameter) should be installed on the high point of the impeller chamber to release air that may be trapped in the chamber. The other end of this line should go into the spray tank.

NOZZLES - Use 15 - 30 nozzles with flat spray tips for small aircraft such as Piper Pawnees or Stearmans. Spraying systems 8001, 80015, or 8002 with 100 mesh screens are satisfactory. Nozzles should be pointed down. Do not use full or hollow cone nozzles. A large volume 50-mesh screen should be used in the spray system.

BOOM AND NOZZLE PLACEMENT - Distance between the left and right outboard nozzles should be approximately ¼ of the wing span. An asymmetrical nozzle arrangement may be needed at low altitudes. A 1/8 to ¼ inch bleed line should be attached to both outer ends of the boom and routed back to the spray tank. This line will bleed off boom pressure and permit a sharp cutoff at end of swath.

BY-PASS - Use a by-pass system connecting the spray pump outlet with the pump inlet. This by-pass line must be equal in size to the pump outlet and should contain a valve controllable from the cockpit. The by-pass commonly used to circulate the pesticide in the spray tank must be closed to avoid scattering the insecticide.

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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 or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. Helena 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 Helena. Helena 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 warrant shall be implied by law.

The exclusive remedy against Helena 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 Helena exceed the price of the product which causes the alleged loss, damage, injury, or other claim. Helena shall not be liable and any and all claims against Helena are waived, for special, indirect, incidental, or consequential damages or expense, of any nature, including, but not limited to, loss of profits or income, whether or not based on Helena's negligence, breach of warranty, strict liability in tort or any other cause of action.

Helena 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.