

**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.

**PARATHION 4 EC**

**ACTIVE INGREDIENTS:**

Parathion (0,0-diethyl 0-p-nitrophenyl phosphorothioate .....	44.3%
Related Compounds .....	2.3%
<b>INERT INGREDIENTS:</b> .....	53.4%
<b>TOTAL</b> .....	100.0%

Equivalent to 4.0 pounds parathion and related compounds per gallon.

**KEEP OUT OF REACH OF CHILDREN**  
**POISON**

**DANGER PELIGRO**

**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

**NOT FOR HOME USE**

**FIRST AID TREATMENT**

**STATEMENT OF PRACTICAL TREATMENT**

Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to parathion and describe his condition. If doctor cannot come, take victim to clinic or hospital. Move victim immediately from the area where parathion is present.

**IF INHALED:** Remove victim to fresh air. If not breathing, immediately give artificial respiration, preferably mouth-to-

mouth, and maintain until doctor sees victim. If breathing is difficult, give oxygen.

**IF IN EYES OR ON SKIN:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated personal clothing and shoes to avoid continued possible exposure to victim or persons in attendance.

**IF SWALLOWED:** Induce vomiting immediately by giving two glasses of water and by touching back of throat with finger. **DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.** Have victim lie down and keep quiet.  
**SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

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**Manufactured By  
MICRO FLO COMPANY  
P.O. BOX 5948  
LAKELAND, FLORIDA 33807**

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**PRECAUTIONARY STATEMENTS**  
**Hazards To Humans and Domestic Animals**  
**DANGER**

**POISONOUS IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. RAPIDLY ABSORBED THROUGH SKIN. REPEATED EXPOSURE MAY, WITHOUT SYMPTOMS, BE INCREASINGLY HAZARDOUS.** Do not breathe vapors or dust. Do not get in eyes, on skin or on clothing.

**POISON SIGNS (Symptoms)**

Parathion is a very dangerous poison. It rapidly enters the body on 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: Headaches, 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.

**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 a pharmacologic antidote and may be administered as an adjunct to, but not a substitute for, atropine which is a symptomatic and often life saving antidote. **DO NOT GIVE MORPHINE OR TRANQUILIZERS BECAUSE THESE ANTIDOTES MAY PRODUCE ADVERSE EFFECT ACCENTUATING THE PHARMACOLOGIC EFFECT OF THIS PRODUCT.** This product is a strong cholinesterse 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 improvements; **VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.**

**ENVIRONMENTAL HAZARDS**

This pesticide is highly toxic to fish and wildlife. Birds in treated areas may be killed. Do not apply directly to water or wetlands (swamps, marshes, bogs, and potholes). Run-off 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.

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

#### PHYSICAL OR CHEMICAL HAZARDS

**DO NOT USE NEAR HEAT OR OPEN FLAME.**

In Case of:

**FIRE** - Use water spray, foam, dry chemical or CO2.

**SPILL or LEAK**, keep all unprotected persons away. Cover with absorbent such as ash, lime, clay or saw dust. Sweep up and bury. Wash area thoroughly with strong lye solution.

#### PROTECTIVE CLOTHING STATEMENTS

**THIS PRODUCT MAY BE FATAL IF SWALLOWED, INHALED, OR IF ALLOWED TO CONTACT SKIN. FAILURE TO PROPERLY FOLLOW ALL INSTRUCTIONS FOR PROTECTIVE CLOTHING AND EQUIPMENT WILL INCREASE YOUR RISK.**

**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 FIELDS:**

Waterproof pants and coat; heavy-duty chemical-resistant gloves; rubber boots or rubber overshoes; hood or wide-brimmed hat; safety goggles or face shield; NIOSH approved respirator. In addition, mixer/loaders must wear a chemical resistant apron when using the concentrated product. During aerial application in enclosed cockpits, a helmet with a visor may be substituted for the hood or wide-brimmed hat and safety goggles or face shield requirements.

**IF MIXING/LOADING IS PERFORMED USING A CLOSED SYSTEM, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE:**

Heavy-duty chemical resistant gloves; chemical resistant apron, long-sleeved shirt (or gauntlets and short sleeve shirt) and long-legged pants; shoes and socks.

Safety goggles or a faceshield 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:**

Clean long-sleeved shirt and long-legged pants. 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 areas. If used for this purpose, contaminated clothing may not be brought back into the cab unless in an enclosure such as a plastic bag.

**REMEMBER! - THE CLOTHING IS NOT INTENDED TO PROTECT YOU DURING REPAIR AND CLEANING OF APPLICATION EQUIPMENT OR DURING EARLY REENTRY. REFER TO THE INSTRUCTION ABOVE.**

**HUMAN FLAGGERS ARE STRICTLY PROHIBITED DURING AERIAL APPLICATION.**

**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:** Wash gloves with soap and water before removing. Take off all work clothes and shoes. Store protective clothing separately from personal clothing. Launder protective clothing after each use. Shower using soap and water. Wear only clean clothes when leaving job. Do not wear contaminated clothing. Personal clothing worn during mixing/loading, application, repair and cleaning of application equipment, disposal of pesticide, and early reentry into treated fields must be stored and laundered separately from household articles. Clothing and equipment heavily contaminated or drenched with parathion must be destroyed according to state and local authorities.

**HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**

Respirators should be cleaned and cartridges replaced according to instructions included with respirators. Replace gloves frequently.

#### **DIRECTIONS FOR USE**

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

#### **CHEMIGATION PROHIBITION**

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

#### **RE-ENTRY STATEMENT**

Re-entry into treated fields before expiration of the re-entry interval specified on this label is prohibited, unless the protective clothing and equipment specified on this label are used.

<b>CROP</b>	<b>RE-ENTRY INTERVAL</b>	<b>STATE(S)</b>
Citrus	21 days (less than 4 lb ai/A)	CA, AZ, NV, NM, OK, TX, UT
	35 days (between 4 and 8 lb ai/A)	CA, AZ, NV, NM, OK, TX, UT

	<b>45 days</b>	<b>CA, AZ, NV, NM, OK, TX, UT</b>
	<b>(more than 8 lb ai/A)</b>	
	<b>5 days</b>	<b>All other states</b>
<b>Apples</b>	<b>6 days</b>	<b>All states</b>
<b>Peaches</b>	<b>6 days</b>	<b>All states</b>
<b>Grapes</b>	<b>Same as Citrus above</b>	
<b>Corn</b>	<b>6 days</b>	<b>All states</b>
<b>Olives</b>	<b>6 days</b>	<b>All states</b>
<b>Tree fruits</b>	<b>6 days</b>	<b>All states</b>
<b>Tree nuts</b>	<b>6 days</b>	<b>All states</b>
<b>Cotton</b>	<b>3 days</b>	<b>All states</b>
<b>All other crops</b>	<b>3 days</b>	<b>All states</b>

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. Because certain states may require more restrictive re-entry 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.

**ORAL WARNINGS** shall inform workers of areas or fields that may not be entered, without protective equipment and clothing specified on this label, during treatment or for (see times specified above). Follow First Aid Treatment instructions shown on this label in case of accidental exposure.

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 parathion on (date of application). Do not enter without appropriate protective clothing for (see times specified above). Follow First Aid Treatment instructions shown on this product label in case of accidental exposure.

**ATTENTION**

To avoid excessive residues of parathion on food or forage crops always observe the statements found under "Directions for Use," limiting the time before harvest when parathion may be applied. Because this material is poisonous by skin contact, inhalation or swallowing it should not be used in such a manner or under weather conditions as will permit drift of the spray onto areas not

intended to be treated. Do not apply or allow drift to areas occupied by unprotected humans or beneficial animals.

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**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**STORAGE AND HANDLING:**

1. Handle container carefully so as to avoid damage and prevent spills.
2. Do not use or store in or around the home.
3. Store container in a well ventilated place.
4. Empty container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.
5. Keep out of reach of children and domestic animals.

**PESTICIDE DISPOSAL**

Wastes of this pesticide are acutely hazardous. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal law. If these wastes cannot be disposed of according to label use instructions, contact your state pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL**

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.

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**DIRECTIONS**

Parathion 4EC is a water emulsifiable insecticidal concentrate for application in water base sprays against certain insects as directed below. Use contrary to these directions may cause serious plant, crop or personal injury.

In order that pesticidal residues on food and forage crops will not exceed tolerances established by the Federal Food and Drug Administration, use only at recommended rates and intervals, and do not apply closer to harvest than specified. Do not apply or allow to drift to areas occupied by unprotected humans or beneficial animals or onto adjoining food, fiber or pasture crops. The grower is responsible for residues on his crops as well as for damages caused by drift from his property to that of others.

Application can be made by aircraft or ground power equipment by trained personnel only using approved protective equipment. Do not apply with hand equipment. Pour specified amount of this

product into nearly filled spray tank. Rinse empty container with water and drain into spray tank. Repeat twice more. Add balance of water to fill tank. Keep agitator running during filling and spraying operations. If mixture does not mix readily, but tends to separate as an oily layer, do not use as injury to plants may result. Do not combine with wettable powders unless previous use of mixture has proven physically compatible and safe to plants. Always thoroughly emulsify this product with at least half of total water before adding wettable powder.

Maximum permissible rate per acre, expressed as Parathion 4EC is given in Parenthesis ( ), after each crop claim.

#### **RECOMMENDATIONS**

**FRUIT CROPS:** Rates are given in terms of Parathion 4EC per 100 gallons of water for thorough coverage application. Unless otherwise specified, apply at first sign of infestation and repeat at 7 to 10 day intervals as needed to maintain control but observe use limitations given for specific crops. For orchard pests; codling moth; apple maggot, oriental fruit moth, or plum curculio, apply at petal fall and every 10 to 14 days thereafter until control is achieved.

**APPLES:** Apple maggot, codling moth, European red mite, fruit tree leaf roller, mealybug, orange tortrix, plum curculio, red-banded leafroller (1st 2nd, and 3rd broods), two-spotted mite - use 1/2 pint. Aphids (rosy apple, green apple), bud moth, red bug - use 3/8 pint. Do not apply within 14 days of harvest (1 1/2 gallons).

**CAUTION:** Injury to fruit and foliage may result from use of this material on McIntosh and related varieties.

**CITRUS (Florida):** Grapefruit, Lemons, Limes, Oranges, Tangelos and Tangerines: Black scale, glover scale, purple scale, yellow scale - use 1/3 to 1/2 pint. Florida red scale, chaff scale, snow scale, whiteflies - use 1/2 pint. Do not apply within 14 days of harvest. (1 gallon)

**PEACHES:** Catfacing insects, Oriental fruit moth, peach twig borer, San Jose scale - 1 pint. Cottony peach scale, fruit tree leaf roller, spider mites - use 1/2 pint. Green peach aphid - use 3/8 pint. Full coverage spray for control of scale insects. Do not apply within 14 days of harvest. Do not apply more than 4 quarts per acre per application or more than 5 quarts per acre per year.

**STRAWBERRIES:** Southeast Region: Field crickets, flea beetles, flower thrips, leaf rollers, pamearas - use 1/2 to 1 pint. Spider mites - use 3/4 pint. Do not apply within 14 days of harvest. (1 3/5 pints).

**VEGETABLE AND FIELD CROPS:** Unless otherwise indicated, dosages are given in pints of Parathion 4EC per acre in sufficient water to provide thorough coverage. Begin applications when insects first appear and repeat at 7 to 10 day intervals as needed to maintain control, but observe use limitations given for specific crops.

**ALFALFA, CLOVER, VETCH:** Aphids (including yellow clover aphid), armyworms, blister beetles, grasshoppers - use 1/2 to 3/4 pint per acre. Make no application within 15 days of culling or forage use. (1 3/5 pint)

**BEANS (Dry and Green):** Aphids, armyworms, leafhopper, leaf miner, leaf roller, Mexican bean beetles, spider mites, stinkbugs, whiteflies - use 1 to 1 3/5 pint (1 pint 7 days before harvest; 1 3/5 pint 15 days before harvest).

**CABBAGE, CAULIFLOWER, BROCCOLI, BRUSSELS SPROUTS, KALE, MUSTARD, TURNIPS:** Aphids, army worms, cabbage looper, flea beetle, diamondback moth larvae, imported cabbage worm, serpentine leaf miner, thrips - use 1 pint.

**RATES AND USE LIMITATIONS:** Broccoli, Brussels Sprouts, Cauliflower: 2 pints - 21 days. Cabbage, Kale, Mustard, Turnips: 1/2 pint - 7 days; 1 pint - 10 days. (Cabbage only, 2 pints - 21 days).

**CELERY:** Aphids, celeryworms, celery leaf-tier, leafhoppers, spider mites - use 1 to 2 pints (1 1/2 pints - 30 days.)

**CORN:** Armyworms, corn rootworms adult (make full coverage applications to foliage when adult beetles become numerous and repeat as necessary) - use 1/2 pint. European corn borer - use 1 to 2 pints. Consult your state agricultural experiment station for proper timing of treatments for European corn borer. Do not apply within 12 days of picking or cutting for forage. (2 pint)

**COTTON:** Aphids, armyworms (up to 3rd instar), brown cotton leafhopper, false chinch bug, salt-marsh, caterpillar, southern garden leafhopper, stink bugs, spider mites, thrips - use 1 pint. Bollworm, cotton leaf perforator, fleahopper, lygus bugs, serpentine leaf miner, tobacco budworm - use 2 pints.

**LIMITATIONS:** For all uses listed above do not exceed 2 pints per acre. Do not hand pick or harvest within 7 days of application. Workers entering treated fields within 24 hours of application should wear protective clothing.

**CUCUMBER, SQUASH, MELONS:** Aphids, cucumber beetle, cutworms, darkling ground beetle, flea beetle, leafhopper, leaf miner, melonworm, pickleworm serpentine, leaf miner, squash bug, spider mites, petrobia mite, thrips - use 1 pint. Do not apply

unless plants are dry nor before plants start to vine. Do not apply within 15 days of harvest on cucumber and squash, 7 days of harvest on melons. (1 pint)

**LETTUCE, ENDIVE:** Aphids, leafhoppers - use 1 pint. Do not apply within 7 days of harvest on head lettuce; 21 days on endive, leaf and bibb lettuce (1 pint)

**PEAS:** Aphids, armyworms, climbing cutworms, pea weevil, serpentine leaf miner, thrips - use 1 pint. Do not apply within 10 days of harvest, or 15 days if pea vines are to be used as forage. (1 pint)

**PEPPERS:** Aphids, pepper maggot, flea beetle, serpentine leaf miner, thrips - use 1 to 1 3/5 pints. Do not apply within 15 days of harvest. (1 3/5 pint)

**POTATOES:** Aphids, armyworms, Colorado potato beetle, flea beetle, green stinkbug, leafhopper, leaf miner, spider mites - use 1 to 2 pints. Do not apply within 5 days of harvest. (2 pints)

**SMALL GRAINS (Barley, Oats, Wheat):** Aphids, armyworms, grasshoppers, greenbug - use 1/2 to 3/4 pint. Do not apply within 15 days of harvest (barley and oats - 1 1/2 pint, wheat - 2 pints)

**TOMATOES:** Aphid, flea beetle, leafhopper, serpentine leaf miner, spider mites, stinkbugs, tomato pinworm - use 1 1/2 to 2 pints. Do not apply within 10 days of harvest. (2 pints)

**CONDITIONS OF SALE**

All statements concerning the use of this product apply only when used as directed. THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THIS PRODUCT OR ITS USE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL. Read all directions carefully.