

Code 749

Net Contents  
Gallons

### 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

# Parathion 4 Emulsifiable

 **DANGER—POISON—  
PRECAUTIONS**



**POISONOUS IF SWALLOWED**

This product can kill you if swallowed even in small amounts. Spray mist or dust may be fatal if swallowed.

## Insecticide

EPA Reg. No. 279-1368 EPA Est. 279

Active Ingredients	
Parathion	44.85%
Related Compounds	2.15%
Xylene Range Aromatic Solvent	46.00%
Inert Ingredients	7.00%
	<u>100.00%</u>

Contains 4 pounds Parathion per gallon



**POISONOUS BY SKIN CONTACT**

Poisonous if touched by hands or spilled or splashed on skin, in eyes or on clothing (liquid goes through clothes)

**STOP! READ THE LABEL**



**CAN KILL YOU**

279-1368



**POISONOUS IF BREATHED**

Breathing vapors, spray mist or dust may be fatal

**DANGER**

Keep out of reach of children

**POISON**

See side panels for antidote and precautions

**USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE EQUIPMENT AND CLOTHING**

- (1) Wear water-proof pants, coat, hat, rubber boots or rubber overshoes.
- (2) Wear safety goggles.
- (3) Wear a mask or 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 30 CFR Part 11.
- (4) Wear heavy duty, natural rubber gloves.

**POISONOUS TO FISH AND WILDLIFE**

**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: 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.

on 11/77



FMC Corporation  
Agricultural Chemical Group  
2000 Market Street  
Philadelphia PA 19103

BEST DOCUMENT AVAILABLE

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish, birds and other wildlife. Keep out of any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes. Birds feeding in treated areas may be killed. Use of this product only as specified on this label.

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.

**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.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal. Empty containers are prohibited from being reused. Do not use for anything other than the purposes for which it was intended. Do not use in any way that would result in the release of the pesticide. Do not use in any way that would result in the release of the pesticide into the environment. Do not use in any way that would result in the release of the pesticide into the environment. Do not use in any way that would result in the release of the pesticide into the environment. Do not use in any way that would result in the release of the pesticide into the environment.

Not for use or storage in or around the home

Do not use in undiluted form

Apply when pests first appear and repeat as necessary. Use the following recommended rates in sufficient water to thoroughly cover one acre. (By ground apply a minimum of 200 gallons per acre or more for trees and nuts, a minimum of 300 gallons per acre on some fruits, a minimum of 200 gallons per acre on bushes and shrubs, and a minimum of 10 gallons per acre on vegetable and row crops. By air apply a minimum of 2 gallons per acre on vegetable and field crops and a minimum of 20 gallons per acre on small fruits and tree crops)

Observe days interval between last application and harvest indicated by number in 1 to 6 following the crop. **Apples (14)** Aphids (Apple, Rose, Apple Woolly), Apple Fruittree Leafroller Use 1.2 to 2.3 pints per 100 gallons of water (By air Use 2 pints per acre). For Aphids apply at pre-bloom, bloom and post-bloom stages. Repeat at 10 to 14 day intervals or as needed. Codling Moth, Mealybugs, San Jose and Forbys Scales Use 1.2 pint per 100 gallons of water (By air Use 3 pints per acre). For Codling Moth apply at petal fall and every 10 to 14 days thereafter until control is achieved. Fruit and foliage injury may occur on Golden Delicious, Jonathan and McIntosh apples as well as related varieties such as Cortland, Kendall, Macoun and Melba.

**Cherries (14)** Cherry Fruitworm, Oriental Fruit Moth, Eyespotted Bud Moth, Orange Tortrix, Cankerworm, Fruit Fly, San Jose Scale, Crawlers, Aphids Use 1.2 pint per 100 gallons. Do not apply by air.

**Figs (10)** Fig Scale Use 1 pint per 100 gallons.

**Grapes (14)** Thrips, Grape Leafhopper, Mealybug, Grape Leafroller Use 1.2 to 1.3 pints per 100 gallons of water (By air Use 2 pints per acre). For Mealybug, Dormant Application Use 2 pints per 100 gallons (Dormant Oil Emulsion per 100 gallons). Apply 200 gallons per acre as a dormant spray. Apply only before fruit is size of buckshot or after harvest. Ground application preferred.

**Leaves (21-California, 14-Areas Other Than California)** Oriental Fruit Moth, Aphids, Fruittree Leafroller, Cattlehopper, Thrips Use 1.2 to 1.3 pints per 100 gallons (apply a minimum of 2 pints per acre). Peach Twig Borer Use 1 pint per acre. For Oriental Fruit Moth apply at petal fall and every 10 to 14 days thereafter until control is achieved. For Thrips apply at 25% bloom through petal fall at 5 to 6 day intervals. Do not apply more than 5 pounds actual parathion per acre between January 1 and harvest.

**Peaches (21-California only) (14-Areas Other Than California)** Cattlehopper, Thrips, Fruittree Leafroller Use 1.2 pints per 100 gallons of water. For Thrips apply at 25% bloom through petal fall at 5 to 6 day intervals. Aphids, Oriental Fruit Moth Use 1.2 to 1.3 pints per 100 gallons of water. For Oriental Fruit Moth apply at petal fall and every 10 to 14 days thereafter until control is achieved. Peach Twig Borer Use 1 pint per 100 gallons of water. Do not apply more than 5 pounds actual parathion per acre between January 1 and harvest.

**Pears (14)** Aphids, Apple Bloss, Apple Woolly, Apple Pear Psylla Use 1.2 pints per 100 gallons of water. Codling Moth, Fruittree Leafroller, Mealybug, Pearleaf Blister Mite, San Jose and Forbys Scales Use 1.2 to 1.3 pints per 100 gallons of water. For Codling Moth apply at petal fall and every 10 to 14 days thereafter until control is achieved. Pearleaf Blister Mite use 1 to 3 pints per acre.

**Plums (14)** Plum Aphid, Thrips, Fruittree Leafroller, Codling Moth, Tulleuse Moth, Eyespotted Bud Moth, Mealy Bug, Aphid, Thrips, Fruittree Leafroller, San Jose Scale Use 2.3 pints per 100 gallons. Peach Twig Borer Use 1 pint per 100 gallons. By air use 2 to 3 pints per acre. For Codling Moth apply at petal fall and every 10 to 14 days until control is achieved.

**Strawberries (14)** Aphids, Lygids Bugs, Leafhoppers, Strawberry Leafhopper, Whitefly Use 1.2 pints per acre (not more than 300 gallons per acre). By air use 1 pint per acre.

**Beans (7)** Aphids, Mexican Bean Beetle, Potato Leafhopper, Leafminer, Armyworm Use 1.2 to 1.3 pints per acre. Whiteflies Use 1 pint per acre. Cabbage Looper Use 1.2 to 1.3 pints per acre (14 - using more than 1 pint per acre).

**Broccoli (7), Brussels Sprouts (7), Cabbage (18), Cellars (10), Kale (10), Mustard (10)** Aphids, Serpentine Leafminer (on collards and mustard), Imported Cabbageworm, Cabbage Looper and Vegetable Weevil Use 1 pint per acre.

**Celery (21)** Aphids, Leafminer and Spider Mites Use 1 pint per acre.

**Cucumbers (15), Melons (7), Squash (15)** Aphids, Cucumber Beetle, Leafminers, Spider Mites, Melonworms and Pearleaf Blister Mite Use 1.2 to 1.3 pints per acre. For Squash Bugs use 1 pint per acre. Do not apply until 10-14 days before picking.

**Cotton (7)** Cotton Aphid, Spider Mites, Sink Bugs, Southern Garden Leafhopper, Cotton Leafminer, Cotton Leafroller Use 1 pint per acre. Do not apply within 7 days of hand picking. Workers picking fields within 24 hours after application should wear protective clothing.

**Lettuce (Head 7, Leaf 21)** Aphids, Leafhoppers, Leafminers, Cabbage Looper, Armyworms Use 1 pint per acre.

**Oats (21)** Aphids, Blister Beetle, Imported Leafminer and Sink Bugs Use 1 pint per acre.

**Pepper (15)** Aphids and Thrips Use 1 pint per acre.

**Potatoes (5)** Aphids, Blister Beetle, Leafhoppers, Leafminers, Thrips and Vegetable Weevil Use 1 pint per acre.

**Spinach (14)** Aphids, Leafminer, and Corn Maggot in crowns Use 1 pint per acre.

**Tomatoes (10)** Aphids, Leafminers, Spider Mites and Tomato Russet Mites Use 1 pint per acre.

**Soil Treatment Beans, Beets, Carrots, Corn, Cabbage, Cauliflower, Lettuce, Sweet Potato, Ornamentals** Wireworms Use 1 to 4 quarts per acre. Ornamentals Use 2 to 6 quarts per acre, as a soil drench and preplanting treatment. The lower rate of application should be used for mineral soils while the higher rate will require the higher dosage. After the material is evenly distributed over the soil surface, it should be thoroughly worked into the top soil to a depth of 2 to 3 inches with a double disk harrow. Application should be made at least one to two weeks before planting. Keep all persons out of treated areas for 48 hours. Do not contaminate ponds or streams.

Do not use in a manner or at a time other than in accordance with label directions because of the hazard to the user, legal reasons, or other undesirable results may occur.

**Dealers Should See in Original Package Only**

**Terms of Sale or Use** This product is sold as a mixture and user agrees to the following conditions. FMC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume the entire risk of use and handling and storage of this material when such use and handling and/or storage is contrary to label instructions.

**Directions and Recommendations** Follow directions carefully. Timing and method of application in weather, soil, crop conditions, mixture with other chemicals not specifically recommended, and other conditions, factors in the use of this product are beyond the control of the seller and are assumed by buyer and user.

**Use of Product** FMC's recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained therefrom in accordance with directions or established safe practice.

**Damages** Buyer or user's exclusive remedy for damages for breach of warranty, including consequential or indirect damages, not exceeding the purchase price paid and shall be limited to the amount of such damages.

**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 and filter replaced according to instructions included with respirator.

**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.**

**FOR EMERGENCY ASSISTANCE CALL  
716-735-3765  
POST TREATED AREA**

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

BEST DOCUMENT AVAILABLE

(749-PA 1182)

NOV 19

Ms. Eunice Currie  
FHC Corporation  
Agricultural Chemical Group  
2000 Market Street  
Philadelphia, PA 19103

Dear Ms. Currie:

Subject: Parathion 4 EC  
EPA Registration No. 279-1368  
Your Application Dated November 5, 1982

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

1. In the re-entry section of your label add "workers entering treated fields within 48 hours must wear protective clothing."

Sincerely yours,

Jay S. Ellenberger  
Product Manager (12)  
Insecticide-Rodenticide Branch  
Registration Division (TS-767)

Enclosure

TS-767:JSEllenberger:DCR-289964:WANG-1177C:lwy:Raven:479-2013:11/16/82