

10163-62 p. 12 1075

17/1077
18/83
300

Ms. Leigh Ann Hannan
Gowan Company
P.O. Box 5696
Yuma, AZ 85364

MAY 2 1986

Dear Ms. Hannan:

Subject: Add Use on Citrus
Prokil Parathion 25 WP
EPA Registration No. 10163-62
Your Application Dated March 24, 1985

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 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 yours,

LJS
Lawrence J. Schnaubelt
Acting Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosure

92972; Schnaubelt; 171077; E-6; KENCO; 4/28/86; 5/6/86; DKD; VO

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							



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 CERTIFI-
CATION.

PROKIL PARATHION 25 WP

Active Ingredients	By Wt
Parathion: O,O-diethyl O-p-nitrophenyl phosphorothioate	73.84%
Related Active Isomers of O,O-diethyl O-p-nitrophenyl phosphorothioate	1.14%
Inert Ingredients	25.00%
	Total 100.00%

STOP - READ LABEL BEFORE USING!
KEEP OUT OF REACH OF CHILDREN

POISON



DANGER
PELIGRO

See Side Panel for
Additional Precautions

NOT FOR HOME USE

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le expliquen haya sido explicado ampliamente

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 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 while removing contaminated clothing and shoes. See doctor immediately.

Net Weight Pounds

Gowan Company

AGRICULTURAL CHEMICALS

12300 E. Co. 8th Street
P.O. Box 5696
Yuma, AZ 85364
16021 783-8844

EPA Reg. No. 10163-62 AA
EPA Est. No. 10163-AZ-1

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER—POISON

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 mask or respirator approved by the Mining Enforcement and Safety Administration for Parathion protection. (4) Wear heavy duty, natural rubber gloves.

WORK SAFETY RULES

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. 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 (See Statement of Practical Treatment section).

IMPORTANT! Before removing gloves, wash them with soap and water. Always wash face, hands 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.



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, lightness in chest, labored breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms and coma.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Do not apply directly to water. Shrimp and crabs may be killed at application rates recommended on this label. Do not apply where these are important resources. 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 only as specified on the label.

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

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.

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.

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.

PROKIL

Parathion 25 WP

Directions For Use

GOWAN COMPANY
P.O. Box 5696
Yuma, AZ 85364

EPA Reg. No. 10163-62AA
EPA Est. No. 10163-AZ-1

OBSERVE THE FOLLOWING USE PRECAUTIONS

Observe use limitations given on the label for specific crops. In order that pesticidal residues on food and forage crops will not exceed tolerance 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 or be occupied by unprotected humans or beneficial animals or onto adjoining food, fiber, or forage crops. The grower is responsible for losses on his crops as well as for damage caused by drift from his property to that of others.

Note to User: Do not permit workers to enter the treated area to engage in any activity requiring substantial contact with treated foliage for the following periods: CITRUS, up to 16 lbs. per acre per year-21 days; greater than 16 lbs. but not more than 40 lbs. per acre per year-30 days; more than 40 lbs. per acre per application or more than 40 lbs. per acre per year-45 days; Apples, Nectarines, Peaches-21 days.

DIRECTIONS FOR USE

Applications can be made by aircraft or ground power equipment by trained personnel only using approved protective equipment. Measure the specific amount of this product then wash through filler screen in nearly filled spray tank or premix in a bucket before pouring into spray tank. Add balance of water to fill tank. Keep agitator running during filling and spray operations. Do not allow mixture to stand. Do not use in low volume gear-type spray equipment. **DO NOT APPLY** with hand equipment. Do not combine with emulsifiable liquids unless previous use of the mixture has proven physically compatible and safe to plants.

RECOMMENDATIONS

Unless otherwise specified, rates are given in terms of Parathion 25 WP per 100 gallons of water for fruit and nut trees; for vegetables and field crops, Parathion 25 WP per acre in sufficient water to provide adequate coverage. **Strawberries:** Dilution: Air, 5-15 gals. per acre. Ground, conventional 20-200 gals. per acre; **Small Fruits:** Air, 7-15 gals. per acre. Ground, 20-200 gals. per acre; **Tree Crops (mature):** Air, 10-20 gals. per acre. Ground, 40-200 gals. per acre. **Citrus (Mature):** Air, 10-20 gal. per acre; Ground, 100-1500 gals. per acre. Except as specified, begin application at first sign of infestation and repeat as needed to maintain control but observe use limits given for specified crops.

FRUIT AND NUT CROPS

ALMONDS: Fruit Tree Leafroller, Navel Orange Worm, Oriental Fruit Moth, Peach Twig Borer, Scale Insects, Tent Caterpillar—Apply 1 to 2 lbs. per 100 gallons of water (4 to 10 lbs. per acre. Do not apply after hulls open. Do not feed treated hulls to livestock. Do not apply more than 4 times per season. As a DORMANT SPRAY, use 1 to 2 lbs. in 2 to 3 gallons of oil per 100 gallons of water.

APPLE—For control of codling moth, plum curculio (apply at petal fall and every 10-14 days thereafter until control is achieved), orange tortrix, San Jose, Forbes, and scurfy scales, red-banded leafroller (second and third brood), woolly apple aphid and mealybug, use 1 lb. Do not apply within 14 days of harvest. Apple pests given below when present are also controlled. Apple aphid, green apple aphid, red-banded leafroller (first brood). For control of bud moth, red bug, fruit tree leafroller, European red mite, two-spotted mite, Pacific mite,

Schoenli mite, Willamette mite, and clover mite, use $\frac{3}{4}$ lb.

For certain mites, such as two-spotted and Willamette, repeat applications at 7-10 day intervals during the summer months. The directions for control of mites on apples are applicable to other deciduous fruits such as peach, pear, prune, and plum. (24.0 lb.) Note to User: Injury to fruit and foliage may result from use of this material on McIntosh and related varieties. Consult agricultural authorities.

APRICOTS—For control of codling moth, Oriental fruit moth (apply at petal fall and every 10-14 days thereafter until control is achieved), and tortrix, use 1 to 2 $\frac{1}{4}$ lbs. Use 2 lbs. for peach twig borer control. Use $\frac{3}{4}$ lb. for bud moth, fruit tree leafroller, spider mites, and aphids as for apple. Do not apply within 14 days of harvest. (14.4 lb.)

CHERRY—Bud moth, black cherry aphid, cankerworm fruit worm, San Jose scale; shot hole borer, western cherry fruit fly, tortrix and Oriental fruit moth (apply at petal fall and every 10-14 days thereafter until control is achieved)—1 lb. For San Jose scale apply at time crawlers emerge. For fruit fly control, begin applications at fly emergence and repeat at 7 day intervals. For mites and aphids— $\frac{1}{2}$ to $\frac{3}{4}$ lb. Do not apply within 14 days of harvest. (8.4 lb.)

CITRUS (California)—For control of California red scale and yellow scale—use 2 $\frac{1}{2}$ lbs. or $\frac{1}{2}$ lb. with 1 $\frac{1}{2}$ to 1 $\frac{3}{4}$ gallons of a light or light medium oil emulsion per 100 gallons in a full coverage spray any time of the year. For control of Purple scale use 1 $\frac{1}{2}$ lbs. or $\frac{1}{2}$ lb. with 1 $\frac{1}{2}$ to 1 $\frac{3}{4}$ gallons of a light or light medium oil emulsion per 100 gallons in a full coverage spray any time of year. For control of Citricola and Cottony-cushion scale use 6 lbs. per 100 gallons and 100 gallons per acre or $\frac{1}{4}$ lb. per 100 gallons in a full coverage spray during August to November; increase dose to $\frac{1}{2}$ lb. per 100 gallons during February to March and 1 lb. during May and June applications. For control of black scale use 1 $\frac{3}{4}$ lb. per 100 gallons of water in a full coverage spray during August to November. For control of citrus thrips use 6 lbs. per 100 gallons and 100 gallons per acre or 1 lb. per 100 gallons in full coverage spray at time of petal fall. Repeat in late summer and early fall to protect new growth and prevent scarring of fruit.

Do not apply within 14 days of harvest. Do not apply dosages of more than 16 lbs. per

acre application within 30 days of harvest. Avoid use of citrus peel for food purposes. (40.0 lb.)

GRAPES (California)—Grape mealybug—Apply 2 lbs. per 100 gals. Use 300 gals. or spray per acre. Apply in late June or early July. Do not apply within 14 days of harvest. Do not apply more than 6 lbs. per acre application after fruit is the size of buckshot. (6.0 lb.)

NECTARINES, PEACHES—Plum curculio and Oriental fruit moth (apply at petal fall and every 10-14 days thereafter until control is achieved), catfacing insects, Fruit tree leafroller and cottony peach scale—use 1 lb. For San Jose scale, use 1 3/4 lb. For Peach twig borer, use 2 lb. Green peach aphid and spider mites, use 1/2-3/4 lb. **Areas other than Calif:** Full coverage spray for control of scale insects. Do not apply within 14 days of harvest. Do not apply more than 5 lbs. actual Parathion per acre per year. (20 lb.) **California:** Do not apply more than 2.5 lbs. actual Parathion per acre for any application. Do not apply within 21 days of harvest. Do not apply more than once after bloom. Do not apply more than 5 lbs. actual Parathion per acre between Jan. 1 and harvest. (20 lb.)

OLIVE—For control of parlatoria, oleander and black scales, use 2 lbs. or 1 lb. with regular oil spray during June and July. No application after August 1. (20 lbs.)

PEAR—For control of pear blister mite, use 1 lb. in pre-blossom spray. For pear psylla, use 3/4 lb. either in pre-blossom or post-blossom sprays. Use dosages listed under apple for control of codling moth, mealybug, woolly aphid and certain spider mites. Under some conditions, injury may occur on Bosc pears in the Northwest. Do not apply within 14 days of harvest. (4.4 lbs.)

PRUNE AND PLUM.—For control of plum curculio, use 1 1/2 lbs. Apply at petal fall and every 10-14 days thereafter until control is achieved. For control of bud moth, mealy plum aphid, tortrix, leafhoppers, aphids and spider mites, use 1 lb. Do not apply within 14 days of harvest. (16 lbs.)

STRAWBERRIES—Aphids, Lygus bugs, Red spider mites, Leafrollers—Apply 2 lbs. per acre in sufficient water to cover. Do not apply within 14 days of harvest. (3.2 lb.)

WALNUT—For control of aphids and red spider mite, use 1 lb. per acre. Repeat at 7-10

day interval for red spider mite. Do not apply after husks open. (20 lbs.)

VEGETABLE AND FIELD CROPS

BEANS—Aphids, Armyworms (up to 3rd instar), Leafhoppers, Red spider mites, Thrips—Apply 2 1/2 lbs. per acre in sufficient water to cover. DO NOT APPLY within 15 days of harvest or 21 days if tops are to be used for food or feed.

BEETS—Fleabeetles, Armyworms (up to 3rd instar), Aphids—Apply 2 1/2 lbs. per acre in sufficient water to cover. Do not apply within 15 days of harvest or 21 days if tops are to be used for food or feed.

BROCCOLI—Aphids, Fleabeetles, Armyworms (up to 3rd instar), Loopers (immature)—Apply 2 lbs. per acre in sufficient water to cover. DO NOT APPLY within 7 days of harvest.

CABBAGE—Fleabeetles, Armyworms (up to 3rd instar), Loopers (immature), Thrips, Aphids—Apply 2 lbs. per acre in sufficient water to cover. DO NOT APPLY within 10 days of harvest.

CARROTS—Aphids—Apply 2-2 1/4 lbs. per acre in sufficient water to cover. DO NOT APPLY within 15 days of harvest. Do not use treated tops for food or feed.

COTTON—Stink bugs, Leafhoppers, Red Spider mites—Apply 2-4 lbs. per acre in sufficient water to cover. DO NOT hand pick or harvest within 7 days of application. Workers entering treated fields within 48 hours should wear protective covering.

CUCUMBERS—Fleabeetles, Cucumber Beetles, Leafminers, Aphids—Apply 2 lbs. per acre in sufficient water to cover. DO NOT APPLY within 15 days of harvest. DO NOT APPLY before vining.

LETTUCE (Head)—Aphids, Loopers (immature), Armyworms (up to 3rd instar), Leafminers—Apply 2 lbs. per acre in sufficient water to cover. DO NOT APPLY within 7 days of harvest.

SQUASH (winter & summer)—Fleabeetles, Aphids, Leafminers—Apply 2 lbs. per acre in sufficient water to cover. DO NOT APPLY within 15 days of harvest.

SUGAR BEETS—Aphids, Armyworms, Blister Beetles, Flea Beetles, Leafhoppers, Leafminers, Webworms—Use 2-3 3/10 lbs. per acre DO NOT APPLY within 15 days of harvest.

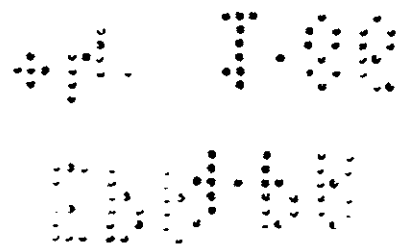
TOMATOES—Leafminers, Armyworms (up to 3rd instar), Leafhoppers, Red spider mites—Apply 2-4 lbs. per acre in sufficient water to cover. DO NOT APPLY within 10 days of harvest.

VETCH, ALFALFA, CLOVER—Aphids, Armyworms, Grasshoppers—Apply 1 1/2 lbs. per acre in sufficient water to cover. DO NOT APPLY within 15 days of harvest.

WHEATS, OATS, BARLEY—Aphids (Greenbug), Armyworms, Grasshoppers—Apply 3 lbs. per acre in sufficient water to cover. DO NOT APPLY within 15 days of harvest.

CONDITIONS OF SALE

Our recommendations for 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 if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.



gallons of water immediately after bloom or before fruit becomes infested . Black Scale - Use 1 1/4 pounds per 100 gallons of water within one month after completion of major hatch. Citrus Thrips and Katydid - Use 6 pounds in 100 to 200 gallons of water per acre. Orange Tortrix - Use 3 1/2 to 6 pounds per 100 gallons of water per acre. Fruittree Leafroller - Use 3 to 4 pounds per 100 gallons of water per acre. Cutworms, Western Tussock Moth, Swallowtail Butterfly Larvae, (Orange Dog), and Mealybug - Use 1 1/4 pounds per 100 gallons of water. Do not apply within 14 days of harvest.

To be placed between 'CITRUS (California)' and 'GRAPES (California)' in the crop use directions booklet.
Dilution rates are given under 'Recommendations' in the crop use directions booklet.

