

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

(A) EPA United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	Application for Pesticide:	<input type="checkbox"/> Registration <input checked="" type="checkbox"/> Amendment <input type="checkbox"/> Other	OPP Identifier Number 201639

Section I

1. Company/Product Number 2935-431	2. EPA Product Manager G. LaRocca	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Red-Top Diazinon 50 WP	PM# 13	
5. Name and Address of Applicant (Include ZIP Code) WILBUR-ELLIS Company 191 W. Shaw Avenue Suite 107 Fresno, CA 93704 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section II

<input type="checkbox"/> Amendment - Explain below <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - explain below.
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Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Change to labeling statement prohibiting application to water. The exact wording from PR Notice 93-3 has been used.

NOTIFICATION LABEL NOT REVIEWED PER FR NOTICE 89-8

DATE 8/3/93

Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted.		If "Yes," Unit Package wgt.	No. per container	If "Yes," Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) of Retail Container 50 Lbs.		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner In Which Label Is Affixed To Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other (_____) <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Joanne Pratt	Title Product Registration and Labeling Specialist	Phone No. (Include Area Code) (209) 226-1934
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped) <div style="text-align: center;"> </div>
2. Signature 	3. Title Product Registration and Labeling Specialist	
4. Typed Name Joanne Pratt	5. Date July 15, 1993	

THIS PRODUCT MUST NOT BE USED ON
GOLF COURSES AND SOD FARMS

RED-TOP DIAZINON® 50W INSECTICIDE

ACCEPTED
APR 29 1987
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 7935-431

ACTIVE INGREDIENT:
O,O-diethyl O-(2-isopropoxy-4-methyl-4-pyrimidinyl) phosphorothioate 50%
INERT INGREDIENTS 50%
TOTAL 100%

"Diazinon" trademark of CIBA-GEIGY
EPA Reg. No. 7935-431 EPA Est. No. 2935-CA-1

**KEEP OUT OF REACH OF CHILDREN
WARNING — AVISO**

**PRECAUCION AL USUARIO: Si usted no lee Ingles, no use este pro-
ducto hasta que le etiqueta le haya sido explicado ampliamente.
See package label for additional precautions.**

Copy A
DIRECTIONS FOR USE

GENERAL INFORMATION

It is a violation of federal law to use this product in a manner inconsistent with its labeling.
Diazinon SOW should be mixed with sufficient water to assure thorough coverage unless otherwise noted in the Directions for Use. Best control is obtained when application is made at first sign of insects. Applications should be repeated as necessary to maintain control.
Since Diazinon SOW is a wettable powder formulation, constant agitation is necessary during application.

**RECOMMENDED FOR
AGRICULTURAL/COMMERCIAL USE.**

FRUIT AND NUT INSECTS

ALMONDS: Mites, Twig Borers: Apply 1-1½ lbs. per 100 gals. of water.
Portulaca Scale, San Jose Scale: Mix 1-1½ lbs. Diazinon SOW plus 2-3 gals. dormant oil per 100 gals. of water and apply as a dormant spray.
Almond hulls may be fed to livestock.
APPLES: Leafhoppers: Apply 1 lb. per 100 gals. of water in 3-5 applications beginning at petal fall and continuing through the growing season, or apply as infestations develop.
San Jose Scale, Mealybug, Apple Aphid Eggs, European Red Mite Eggs, Brown Mite Eggs: Mix 1 lb. of Diazinon SOW plus 1 gal. of superior type oil or 2 gals. of dormant oil per 100 gals. of water. Apply as a dormant or delayed-dormant spray.
Two-spotted Bud Moth, Fruit-tree Leafroller, Mealybug: Mix 1 lb. per 100 gals. of water. Make 3-4 cover spray applications, beginning in the pink stage.
Do not apply within 14 days of harvest.
APPLES and PEARS: Codling Moth, Rasy Apple Aphid, Green Apple Aphid, Woolly Apple Aphid, Mites: Mix 1 lb. Diazinon SOW per 100 gals. of water. Make 3-8 cover spray applications, beginning with the first cover. Applications should be timed according to insect infestations.
Apple Maggot: Mix 1 lb. of Diazinon SOW per 100 gals. of water. Make at least 3 cover spray applications when flies are active and laying eggs.
San Jose Scale Crawlers, Forbes Scale Crawlers: Mix 1 lb. per 200 gals. of water. Apply early in the season when crawlers first appear. If infestation warrants, make a second application 7-10 days later.
Note: Mites will be suppressed if Diazinon SOW is used in the regular cover spray program. Slight russeting may occur on some varieties of apples, such as Golden Delicious.
Do not apply to apples or pears within 14 days of harvest.
APRICOTS: San Jose Scale, Brown Apricot Scale, Walnut Scale, Apricot Mealybug: Mix 1 lb. of Diazinon SOW plus 2 gals. of dormant oil per 100 gals. of water. Apply as a dormant spray.
Aphids, Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawlers, San Jose Scale Crawlers: Mix 1 lb. per 100 gals. of water. Apply when aphids, mites, and scale crawlers first appear.
Olive Scale Crawlers: Mix ½ lb. Diazinon SOW plus 1½ gals. of light medium horticultural oil per 100 gals. of water. Apply when scale crawlers are present.
Apricot Mealybug: Mix 1 lbs. per 100 gals. of water. Apply as a cover spray from petal fall to June.
Do not apply within 10 days of harvest.
BLUEBERRIES: Cranberry Fruitworm, Cherry Fruitworm, Blackberry Maggot, Aphids, Thrips, Two-spotted Mite: Mix 1 lb. per 100 gals. of water. Apply up to 200 gals. of spray per acre, or apply 2 lbs. per acre in sufficient water for thorough coverage. Do not apply within 7 days of harvest.
CANEBERRIES: Blackberries, Boysenberries, Tawberries, Loganberries, Raspberries: Leafhoppers, Thrips, Aphids, Two-spotted Mite, Raspberry Sawfly: Mix 1 lbs. per 100 gals. of water and apply up to 200 gals. of spray per acre, or apply 2 lbs. per acre in sufficient water for thorough coverage.
Raspberry Fruitworm: Apply at the above rates when blossom buds separate and repeat application immediately before blossoms open.
Bryberry Mite: Mix 2 lbs. per 100 gals. of water. Apply as a dormant spray in early spring, when canes are still on the ground and buds are closed. Make a second application when the buds are well developed, but still closed.
Raspberry Crown Borer (Raspberry Root Borer): Mix 4 lbs. per 100-200 gals. of water and apply as a drench to the crown area and to the lower canes. Apply either in the spring before berries begin to form, or in the fall after harvest.
Do not apply within 7 days of harvest.

**NOTIFICATION
LABEL NOT REVIEWED
PER PR NOTICE 88-8
8/3/93**

DATE

CHERRIES: Brown Apricot Scale, San Jose Scale, Black Scale, Black Cherry Aphid Eggs, Brown Mite: Mix 1½ lbs. of Diazinon SOW plus 3 gals. of dormant oil per 100 gals. of water. Apply as a dormant spray.
Leafroller Bud Moth, Fruit-tree Leafroller: Mix 1 lb. per 100 gals. of water. Apply in cover sprays as necessary, beginning with petal fall.
Leafhoppers: Apply 1 lb. per 100 gals. of water in 3-5 applications beginning at petal fall and continuing through the growing season, or apply as infestations develop.
Cherry Fruit Fly: Mix ½-1 lb. per 100 gals. of water. Make 3 or 4 applications, beginning when adult flies begin to emerge and repeating at 10-day intervals.
Black Cherry Aphid: Mix 1 lb. per 100 gals. of water. Apply as a cover spray when aphids appear and repeat after 10 days.
San Jose Scale Crawler: Mix 1 lb. per 100 gals. of water. Apply during the pre-pink stage or when crawlers first appear.
Cherry Rust Mite: Mix ½-1 lb. per 100 gals. of water. Apply as a supplemental spray after harvest.
Do not apply within 10 days of harvest.
CRAWBERRIES: Blackheaded Fruitworm, Raspberry Hibernia: Apply 4 lbs. in 400 gals. of water per acre. Cranberry Fruitworm: Apply 6 lbs. in 400 gals. of water per acre.
Do not apply within 7 days of harvest.
FIGS: Vinegar Fly (*Drosophila* spp.), Dried Fruit Beetle: Apply 1 lb. per 100 gals. of water. Do not apply within 5 days of harvest.
FILBERTS: Filbert Leafroller, Aphids: Apply 2-4 lbs. in 250-400 gals. of water per acre, as a thorough cover spray.
CITRUS FRUITS: Grapefruit, Lemons, Limes, Oranges, Tangerines, Tangerines, Citrus Citron, Kumquats, and hybrids of these: Citrus Aphid, Cottonywood Scale Crawlers, and Salt Scale Crawlers: Apply ½-1 lb. per 100 gals. of water (maximum 1000 gals. per acre) as a thorough cover spray when aphids and crawler stages of scale insects first appear.
Fruit-tree Leafroller: Mix ½-1 lb. per 100 gals. of spray (maximum 1000 gals. per acre) when an average of 50 percent of eggs in egg masses have hatched in the spring.
Citrus Thrip: Apply 1 lb. in 100 gals. of water (maximum 1000 gals. per acre) when thrips first appear.
Citrus Snow Scale: Apply 1-2 lbs. per 100 gals. of water (maximum 1000 gals. per acre) as a postbloom spray and again as a summer spray. For heavy snow scale infestations, use the higher dosage rate. Thorough coverage of tree trunk, limbs, and twigs is essential.
Do not apply during bloom. Do not apply to citrus within 21 days of harvest.
GRAPES: Pacific Spider Mite, Leafhoppers, Grape Berry Moth, Grape Leafroller: Mix 1 lb. per 100 gals. of water and apply as a thorough cover spray, or apply 2 lbs. per acre in sufficient water for thorough coverage. Do not apply within 18 days of harvest.
Drosophila spp.: Mix 6 oz. per 100 gals. of water and apply as a thorough cover spray, or apply a maximum of 18 oz. per acre in sufficient water for thorough coverage when insects first appear. Make additional applications at weekly intervals as necessary. Do not apply within 7 days of harvest, if a spreader-sticker is used, do not apply within 18 days of harvest.
OLIVES: Olive Scale: Mix ½-1 lb. Diazinon SOW plus 1½ gals. of light medium summer horticultural oil per 100 gals. of water. Apply as a cover spray in June or July. Do not apply during bloom to avoid injury to pollinating insects or within 75 days of harvest.
PEACHES and NECTARINES: San Jose Scale, Brown Apricot Scale, Walnut Scale, Apricot Mealybug: Mix 1 lb. of Diazinon SOW plus 2 gals. of dormant oil per 100 gals. of water. Apply as a dormant spray.
Peach Twig Borer, Parturata Scale: Mix 1 lb. Diazinon SOW plus 1 gal. of light medium summer horticultural oil per 100 gals. of water. Apply at petal fall.
Aphids, Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawlers, San Jose Scale Crawlers: Mix 1 lb. per 100 gals. of water. Apply when aphids, mites, and scale crawlers first appear.
Olive Scale Crawlers: Mix ½ lb. of Diazinon SOW plus 1½ gals. of light medium horticultural oil per 100 gals. of water. Apply when scale crawlers are present.
Oriental Fruit Moth: Mix 1 lb. per 100 gals. of water and apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult Oriental fruit moth flight, if possible.
Peach Twig Borer: Mix 1 lb. per 100 gals. of water and apply to peaches in May and June.
Leafhoppers (Peach only): Apply 1 lb. per 100 gals. of water in 3-5 applications beginning at petal fall and continuing through the growing season, or apply as infestations develop.
White Peach Scale (Peaches only): As a postharvest spray apply 1½-2 lbs. per 100 gals. of water times to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation, 2 applications may be necessary.
Do not apply to peaches within 20 days, or to nectarines within 10 days, of harvest.
PEARS: Pear Leaf Blister Mite, Mealybug, San Jose Scale, Brown Apricot Scale: Mix 1 lb. of Diazinon SOW plus 2 gals. of dormant oil per 100 gals. of water. Apply as a dormant spray.
Pear psylla: Mix ½-1 lb. per 100 gals. of water. Apply as a cover spray at pre-pink stage. Make 1-2 additional applications during the first and second cover sprays if necessary.
Tortiform Leafroller, Mealybug: Mix 1 lb. per 100 gals. of water. Apply in 3 cover sprays, beginning in April.
Refer also to the Apples section.
Do not apply within 14 days of harvest.
PECANS: Aphids, Mites, Pecan Nut Caseworm, Walnut Caterpillar: Apply 2-6 lbs. per acre as a foliage spray. Do not apply after nut's crack.
PINEAPPLE: Pineapple Scale: Apply 10 lbs. Diazinon SOW plus 2 gals. of light medium horticultural oil in 500 gals. of water per acre to the vegetative slips on the plant before harvest of the pineapple.
Pineapple Mealybug: Apply 4 lbs. per acre. May be applied on day of harvest.
Pineapple foliage and refuse may be fed to livestock 7 days following last application.
PLUMS and PRUNES: Peach Twig Borer, Mealy Plum Aphid Eggs, San Jose Scale, Parturata Scale, Brown Mite, Almond Mite: Mix 1 lb. of Diazinon SOW plus 2 gals. of dormant spray. For late April or May applications, mix 1 lb. of Diazinon SOW plus 1 gal. of light medium summer horticultural oil per 100 gals. of water.
Brown Mite (Clover Mite), European Red Mite: Apply 1 lb. in 100 gals. of water.
Leafroll Plum Aphid, Mealy Plum Aphid, Tortoise Aphid: Apply ½-1 lb. per 100 gals. of water.
Do not apply within 10 days of harvest.
STRAWBERRIES: Aphids, Two-spotted Spider Mite: Apply 1 lb. in 100 gals. of water per acre.
Cyclamen Mite: Apply 2 lbs. in 100 gals. of water per acre, directing spray at plant crowns. Plants should be sufficiently agitated to ensure thorough coverage of the foliage. Make additional applications if necessary, after harvest.
Mite control: Broadcast 2 lbs. per acre if mites are present. Apply 1-2 days before transplanting and mix into the top 1-2 inches of soil immediately.
Strawberry Leafroller: Mix ½-1 lb. per 100 gals. of water. Apply 700 gals. of spray per acre when berries are showing color.
Do not apply within 5 days of harvest.

Wilbur-Ellis

P.O. BOX 16458, FRESNO, CA 93755

WALNUTS: Aphids, Mites: Apply 7 lbs. per acre as a foliage spray.
 Cecidling Moth, Scale Crawlers, Walnut Caterpillar: Apply 6 lbs. per acre.
 Do not apply after the husks open.

VEGETABLE FOLIAR INSECTS

Diazinon 50W should always be applied as a spray in sufficient water to assure thorough coverage of the foliage.

BEANS: Pea Beans, Snap Beans, Lima Beans: Black Bean Aphid, Mexican Bean Beetle, Leafminers: Apply 1-1 1/2 lbs. per acre.

Cucumber Beets: Apply 1/2-1 lb. in 100 gals. of water per acre.
 Do not apply within 7 days of bean harvest. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

LIMA BEANS: Deteriorating Leafminer, Leafhoppers, Mites: Apply 1 lb. per acre. Do not apply within 7 days of bean harvest. Bean forage or bean hay may be fed to dairy and sheep. Wait 4 days following treatment if forage is to be cut for hay.

BROCCOLI, CABBAGE, CAULIFLOWER: Aphids, Diamondback Moth, Imported Cabbageworm, Deteriorating Leafminer: Apply 1/2-1 lb. per acre. Applications at 7-10 day intervals will usually be required. Do not apply to broccoli or cauliflower within 5 days, or to cabbage within 7 days, of harvest.

BRUSSELS SPROUTS: Aphids, Diamondback Moth, Imported Cabbageworm: Apply 1 lb. per acre. Applications at 7-10 day intervals will usually be required. Do not apply to brussels sprouts within 7 days of harvest.

CARROTS: Aphids: Apply 1 lb. per acre. Do not apply within 10 days of harvest.

CELERY: Aphids, Flea Beetles: Apply 1 lb. in 100 gals. of water per acre.
 Deteriorating Leafminer: Apply 1/2-1 lb. per acre in sufficient water to achieve thorough coverage when infestations first appear. Repeat as necessary.
 Do not apply within 10 days of harvest. Plants should be market trimmed (tops removed) before being shipped or used. Tops should not be used for feed or fuel.

COLLARDS, KALE, SWISS CHARD, TURNIP TOPS: Aphids, Imported Cabbageworm, Diamondback Moth, Harlequin Cabbage Bug, Corn Earworm: Apply 1/2-1 lb. per acre. Do not apply to collards, kale, or turnip tops within 10 days, or to swiss chard within 12 days, of harvest.

CUCUMBERS: Aphids, Serpentine Leafminer, Thrips: Apply 1 lb. per acre. Do not apply within 7 days of harvest.

LETTUCE and ENDIVE: Aphids, Deteriorating Leafminer: Apply 1/2-1 lb. per acre. Do not apply within 10 days of harvest.

MELONS and SQUASH: Cucumber Beetles, Cabbages, Crosshairs, Honeydew Moths, Mosquitoes, Persian Moths, and hybrids of these; Watermelons and their hybrids; Summer and Winter Squash: Aphids, Leafhoppers, Mites: Apply 1-1 1/2 lbs. per acre.
 Serpentine Leafminer, Thrips: Apply 1/2-1 lb. per acre.

Do not apply to melons or winter squash within 3 days, or to summer squash within 7 days, of harvest.

MUSHROOM HOUSES: Mushroom Flea (Phorid and Scarid): Mix 4-8 lbs. in 50 gals. of water (0.5% to 1.0% actual Diazinon) and spray on outside and inside walls and ventilators of mushroom houses, after compost in beds has been pasteurized by heating. Do not spray compost in beds or after spawning.
 To treat wooden sills of beds, posts, doors, and door frames after pasteurizing, mix 1/2 lb. in 6 gals. of water and apply with a brush.
 Do not treat compost.

ONIONS: Onion Thrips: Apply 1 lb. per acre. Do not apply within 10 days of harvest.

PEAS: Aphids, Leafminers: Apply 1/2-1 lb. per acre. Peas may be picked immediately. Pea vines and pea hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

PEPPERS: Aphids, Serpentine Leafminer: Apply 1/2 lb. per acre. Do not apply within 5 days of harvest.

POTATOES: Aphids, Flea Beetles, Colorado Potato Beetle, Deteriorating Leafminer: Apply 1/2-1 lb. per acre. Do not apply within 25 days of harvest.

SARDINES, PARSNIPS, TURNIPS: Aphids, Flea Beetles, Deteriorating Leafminer: Apply 1/2-1 lb. per acre. Do not apply within 10 days of harvest.

SPINACH and BEETS: Aphids, Deteriorating Leafminer: Apply 1/2-1 lb. per acre. Do not apply to spinach within 10 days, or to beets within 14 days, of harvest.

SQUASH, Summer and Winter: See Melons and Squash section.

SWEET CORN: Corn Earworm: Apply 2-2 1/2 lbs. per acre when silks first appear. Two or three repeat applications at 2-3 day intervals will usually be necessary. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.
 Refer also to Corn under Field and Forage Insects.

TOMATOES: Aphids, Deteriorating Leafminer: Apply 1/2 lb. per acre. To control leafminers weekly applications are usually required.
 Banded Cucumber Beetle, Fall Armyworm, Southern Armyworm: Apply 1/2-1 lb. per acre.
 Vinegar Fly (*Drosophila* spp.): Apply 1/2-1 lb. per acre. Weekly applications are usually required.
 Do not apply within 1 day of harvest.

WATERCRESS (Kawli only): Cucumber Mite: Apply 1 lb. in 100 gals. of water per acre. Direct spray to crowns and growing tips of plants. If infestation is heavy, make a second application no later than 10 days after the first application. Repeat applications as necessary. Do not apply within 5 days of harvest.

VEGETABLE SOIL INSECTS

Diazinon 50W should always be applied as a spray in sufficient water to assure thorough coverage of the soil.

CARROT RUST FLY: Carrots: Apply 4 lbs. per acre as a drench to the seed furrow at planting time.

CUTWORMS (Surface and Subterranean):			
Broccoli	Cucumbers	Parsley	Summer Squash
Broadleaf Sprouts	Endive (escarole)	Peas	Sweet Corn
Cabbage	Kale	Peppers	Swiss Chard
Cauliflower	Lettuce	Potatoes	Tomatoes
Collard	Lima Beans	Snap Beans	Watermelon
Collards	Mushrooms	Spinach	Winter Squash

Broadcast 4-8 lbs. per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cut worms, 3-6 inches for subterranean cutworms.

GARDEN SYMPHYLANS (Cockroaches):			
Cabbage	Red Beets	Snap Beans	Pole Beans
Carrots	Corn	Tomatoes	Turnips
Radishes	Lettuce	Peas	

(?) TYPEAS: Cutworms (Surface and Subterranean): Broadcast 4-8 lbs. per acre, just prior to planting. Work into 2-3 inches of soil for surface cutworms, 3-6 inches for subterranean cutworms.

NOPI: Aphids, Mites: Apply 2 lbs. per acre. Do not apply within 14 days of harvest.

LESPEDEZA: Cutworms (Surface and Subterranean): Broadcast 4-8 lbs. per acre just prior to planting. Work into 2-3 inches of soil immediately for surface cutworms, 3-6 inches for subterranean cutworms.

PEANUTS: Cutworms: Apply 4 lbs. per acre in a 12-inch band over the row. Use sufficient water to achieve thorough coverage. Begin application when small larvae appear. Two or three additional applications at 3-week intervals may be necessary. Do not apply within 21 days of peanut harvest.
 Note: (1) insecticide may be fed peanut hulls, (2) may be fed peanut forage 7 days following treatment, and (3) may be fed peanut hay 21 days following treatment.

SORGHUM: Sorghum Midges: Apply 1/2-1 lb. per acre when 90% of the heads have emerged from the soil. Repeat applications within 4 days.

Crop may be fed to livestock immediately following treatment. Do not apply within 7 days of harvesting for grain.

Cutworms (Surface and Subterranean): Broadcast 4-8 lbs. per acre just prior to planting. Work into 2-3 inches of soil immediately for surface cutworms, 3-6 inches for subterranean cutworms.

SOYBEANS: Cutworms (Surface and Subterranean): Broadcast 4-8 lbs. per acre just prior to planting. Work into 2-3 inches of soil immediately for surface cutworms, 3-6 inches for subterranean cutworms.

SUGAR BEETS: Beet Leafhopper, Deteriorating Leafminer, Aphids: Apply 1/2-1 lb. per acre.
 Grasshoppers: Apply 1 lb. per acre.

Wireworms: Broadcast 6-8 lbs. per acre just prior to planting, and work into 4-8 inches of soil immediately. Tops may be fed to beef and dairy animals.

SUGARCANE: Aphids: Apply 1/2-1 lb. per acre.
 Note: Allow 1 day between last application and harvest. Bagasse and forage may be fed to livestock.

Wireworms: Apply 8 lbs. per acre on a 12-inch band centered over the furrow in sufficient water to obtain thorough coverage. Make application directly to seed pieces in open furrow at covering time.

TOBACCO: Aphids, Flea Beetles: Apply 1/2-1 lb. per acre. Do not apply within 3 days of harvest.
 Cutworms: Broadcast 4-8 lbs. per acre before transplanting and work into 2-4 inches of soil immediately.

Green June Beetle Larvae: Mix 1/2 lb. in 50 gals. of water and apply as a drench (100 gals. per 100 sq. yds.) to uprooted areas of plant beds with sprinkling can.
 Mole Cricket: Broadcast 2 lbs. per acre, when insects are present. Make application to beds or fields 1-2 days prior to sowing seed or transplanting, and work into 1-2 inches of soil immediately.

Seedcorn Maggot: (1) Broadcast Application: Broadcast 3 lbs. per acre, 3-4 weeks before transplanting. Work into 2 inches of soil immediately. (2) Transplant Water Application: Mix 1 1/2-3 oz. in 50 gals. of transplant water.
 Wireworms: Broadcast Application: Broadcast 4-8 lbs. per acre, 3-4 weeks before transplanting. Work into 6-9 inches of soil immediately.

RANGE, PASTURE and GRASSLAND INSECTS

BERMUDAGRASS: Thrips, Whiteflies, Grasshoppers: Apply 1 lb. per acre.

BANGLAND, PASTURE, GRASS FORAGE, BITCH BANKS, ROADSIDES, WASTELAND, NONCROP AREAS, BARRIER STRIPS: Grasshoppers: Apply 1/2-1 lb. per acre in sufficient water or oil to obtain thorough coverage when insects first appear, preferably in the nymphal stage.

Dairy and beef cattle, and sheep (1) may be grazed immediately following application, (2) may be fed green forage immediately following cutting, and (3) may be fed hay, provided grass is not cut for hay for 21 days if the spray is a water solution, or for 30 days if the spray is an oil solution. Do not spray livestock directly with either air or ground equipment except as indicated under Livestock Insects. Do not repeat application for 30 days.

LIVESTOCK INSECTS

SHEEP "TICKS" (Keds), LICE: High gallage, high pressure spray: Mix 1/2 lb. in 100 gals. of water, and apply at the rate of 1 gal. per animal.

Low gallage, low pressure spray: Mix 1 lb. in 100 gals. of water. Apply at the rate of 1 qt. per animal.

Sprinkle Cans: Mix 1 oz. in 6 gals. of water. Crowd sheep into a small pen and sprinkle 1 qt. of this mixture over the head, neck, top, and side of each sheep. Stir or agitate mixture frequently.

Note: Do not slaughter sheep within 14 days after treatment. Repeat applications as necessary.

ORNAMENTAL INSECTS

To control certain insects on ornamentals, such as Arbutus, Azalea, Birch, Berberis, Camellia, Caribaea, Chrysanthemum, Double Fr. Elm, Gladiolus, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Oak, Pine, Plum, Pear, Rhododendron, Rose, Spruce, and Willow, apply the recommended rates indicated below.

Insects	Amount Diazinon 50W to Use	
	per 3 gals. water	per 100 gals. water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Deteriorating Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omphalotus Leafminers, Privet Mites, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft Scale), Thrips, Two-spotted Mites, Webworms, Whiteflies	1/2 oz.	1 lb.

Insects	Amount Diazinon 50W to Use	
	per 3 gals. water	per 100 gals. water
Apple and Thorn Skeletonizers, Caterpillar Webworms, Fall Webworms, Manduca Chermes, Oak Looper, Outwashed Leafrollers, Pear Stage, Tent Caterpillars	1 1/2 oz.	3 lbs.

Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pine, or Citrus since injury to the planter may occur. Monitor Webworms. Mix 1/2 oz. in 3 gals. of water for 7-8 in. (10 gals. of water) and apply as a thorough larval spray when adults first appear. Make a second and third application at 4-5 week intervals.

LAWN INSECTS

To control insects listed below, apply recommended rates. For insects such as ants, Brown Dog Ticks, Clover Mites, Crickets (Earwigs), Fleas, Millipedes, Sowbugs and Springtails (Collembola) which are commonly found near the house and may enter the house, spray a 5 in. band of soil around the house as well as the house foundation wall to a height of 2-3 ft. Repeat applications if necessary.

Insects	Rate / 1000 sq. ft.		Remarks
	Diazinon SOW	Water	
Lawn Chinch Bugs	2-3 oz. or 3-6 oz.	25 gals.*	Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns.
Ants, Armyworms, Clover Mites, Springtails (Collembola), Crickets, Cutworms, Digger Wasps, Earwigs, Fire Flies, Lawn Billbugs, Saw Webworms (Lawn Moths), Sowbugs	4 oz.	3 gals.	Spot spray ant hills and wasp ground nest openings. For lawn billbugs, irrigate the lawn thoroughly immediately after treatment. For fire flies, mow grass and water well before treatment, but delay application until grass is dry. Do not water again until necessary.

Insects	Rate / 1000 sq. ft.		Remarks
	Diazinon SOW	Water	
Brown Dog Ticks, Bermuda Mites, Chiggers, Fleas, Leishmaniasis	1 1/2 oz.	3 gals.	Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near houses.
Millipedes	6 oz.	3 gals.	
Rhodesgrass Scales	5 oz.	25 gals.*	Apply when crawlers first emerge.

*Application can be made in 3 gals. of water per 1000 sq. ft. Thoroughly water treated area immediately following application.

Boulder Bugs: Spray bugs outside the home with 1 1/2-2 1/2 oz. in 1 gal. of water. At the same time, spray thoroughly around foundation, windows, doors, tree trunks, and into cracks and other places where the insects hide.

SEED TREATMENT — PLANTER-BOX TREATMENT

CORN: Seedcorn Beetle: Mix 3 oz. per bushel of seed as a dry mixture in the planter box as a seed treatment prior to planting.

CORN, PEAS, SOYBEANS, and BEANS (Lima, Snap, White, and Edam): Seedcorn Maggot: Mix 1/2 oz. per bushel of seed as a dry mixture in the planter box as a seed treatment prior to planting.

PLANTER-BOX MIXING INSTRUCTIONS: Stir seed slightly using a plating stick. Additional mixing will result from the operation of the planter. DO NOT MIX WITH BARE HANDS.

Note: If seed has not been treated with a fungicide, use Captan or Thiram in combination with Diazinon SOW at rates indicated on fungicide package. Failure to use a fungicide with Diazinon SOW may result in injury to the seed. If the seed treatment increases the friction between seeds sufficiently to reduce the rate of delivery through the planter, 1/2 oz. of graphite per bushel of seed should be added as a drift lubricant. Adjust the planter to give the required rate of seed delivery with the treated seed.

CAUTION: Treated seed must not be used for or mixed with feed or animal food, or processed for oil. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seeds beyond planting time.

FLY CONTROL

Fly control in barns and animal sleeping quarters (cows, dairy larks, milk rooms, and poultry houses).

RESIDUAL SPRAYS: Remove animals from buildings prior to treatment and keep animals out for at least four hours. Mix 2 lbs. of Diazinon SOW in 25 gals. of water and apply as an overall spray to ceilings and walls of livestock sheds, calf barns, hog barns, loading sheds, and other farm buildings except poultry houses, dairy barns, and milk rooms. Areas where flies congregate, such as garbage dumps and curbs, should be sprayed thoroughly. Longer residual control may be obtained by increasing the rate to 4 lbs. in 25 gals. of water. Applications should be made to point of run-off. One gal. of the above spray should cover from 350-750 sq. ft. of area, depending on the surface treated. Repeat applications as fly populations warrant.

BAIT SPRAYS: Mix the appropriate amount of Diazinon SOW with 1 lb. of sugar (or 2 cups of syrup or molasses) for the desired application.

For knapsack or similar type sprayer, mix 1 lb. with the sugar in 2 1/2 gals. of water and spot treat areas frequented by flies including cracks, crevices, doorways, around windows, or other areas where flies congregate. Repeat applications as fly populations warrant.

For spritzing can application, mix 2 oz. with the sugar in 5 gals. of water and spritz lightly over the floor in areas frequented by flies. Applications every day or two will generally be required.

Do not contaminate milk, feed, drinking water, or apply to animals or poultry. Do not use in edible product areas of food processing plants or other areas where food is commercially prepared or processed. Do not use in dwellings.

DZ SOW-1

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ENVIRONMENTAL HAZARDS

"For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark."

