

FEB 4 1985

300 / 139496
17 / 2

Mr. Melvin Goldberg
Pesticide Advisory Service
37 Midvale Road
Hartedale, NY 10530

Dear Mr. Goldberg:

Subject: Amendment - Updated Label
Diasol 50 W
EPA Registration No. ⁴⁰⁷⁷ 4077-6
Your Application Dated September 25, 1984

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) is acceptable, provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

1. Increase the type size of KEEP OUT OF REACH OF CHILDREN and WARNING on both the leaflet and bag so they conform with our requirements; at present, they are much too small. Refer to the enclosure.
2. Add the Spanish signal word "Aviso" to the front panel of both labels using the same type size and prominence as the English signal word. Also add the Spanish text which currently appears on the leaflet to the front panel of the bag label.
3. Remove the hyphen which currently appears just after the word Diazinon in the ingredients. Instead, you should bracket the longer chemical name.
4. In our notice of registration issued for this product we asked that on the bag label "fruit flies" be revised to "frit flies" under the heading Lawn Insects. This revision has not yet been made and, again, we ask that it be done.
5. On the leaflet label add the following text to the paragraph beginning with "Written or oral warnings must..." "Written warnings must include the following information 'WARNING. Area treated with Diazinon on (date of application). Do not enter without appropriate protective clothing until sprays have dried. (insert here actions to take in case

SYMBOL							
SURNAME	J. Paulsky						
DATE	1/25/85						

-2-

Submit five (5) copies of your revised final printed labeling before you release the product for shipment with the amended labeling.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

Enclosure

RD/IRB-JOB:50433;LaRocca:RD-61;Kendrick:898-1270:cac:1/11/85:Del.1/22/85

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3 of 4
46077-6
PM15

LEAFLET FROM BOTTOM FLAP OF DIASOL 50W BAG
THAT GIVES DIRECTIONS FOR USE.

DIASOL 50W

A Wettable Powder Insecticide

For control of certain insects on fruits, vegetables,
nuts, field crops, ornamentals and turf

A FOR AGRICULTURAL AND COMMERCIAL USE ONLY

ACTIVE INGREDIENTS:

13 Diazinon-O,O-diethyl O-(2-isopropyl-6-methyl-4-
pyrimidinyl) phosphorothioate

50%

INERT INGREDIENTS:

50%

Total

100%

ACCEPTED
with COMMENTS
in EPA Letter I

FEB 4 1985

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pest
registered under EPA Reg.

46077-6

KEEP OUT OF REACH OF CHILDREN

WARNING

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

STATEMENT OF PRACTICAL TREATMENT

No swallowed, call a physician or Poison Control Center immediately.
Drink one or two glasses of water and induce vomiting by touching
the back of throat with a finger. Repeat until vomit fluid is clear.
Do not induce vomiting or give anything by mouth to an unconscious
or convulsing person.

If inhaled, remove victim to fresh air and apply artificial respi-
ration if indicated.

If on skin, remove contaminated clothing and wash affected areas
immediately with soap and water.

If in eyes, rinse eyes for at least 15 minutes with water and call
a physician immediately.

NOTE TO PHYSICIAN Product contains an organophosphate insecticide.
If symptoms of cholinesterase inhibition are present, atropine by
injection is antidotal. 2-PAM is also antidotal, and may be adminis-
tered in conjunction with atropine.

See left side panel for precautionary statement

WARRANTY STATEMENT

NOTICE Seller warrants that the product conforms to its chemical description and is reasonably fit
for the purposes stated on the label when used in accordance with directions under normal condi-
tions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS
FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to
label instruction, or under abnormal conditions, or under conditions not reasonably foreseeable to
seller, and buyer assumes the risk of any such use.

EPA Reg. No. 46077-6

Dist. By:

Net Weight 4 lbs.

EPA Est. No. 11678-IS 01

Pesticide Advisory Service

37 Midvale Road

Hartsdale, New York 10530

Diazinon **ORM-A** UN 2783

DIRECTIONS FOR USE

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

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 without protective clothing until sprays have dried.

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. When oral warnings are given, they shall be in a language customarily understood by the workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by the workers.

STORAGE AND DISPOSAL

Storage: Do not contaminate water, food, or feed by storage or disposal. Store in a dry place.

Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

In case of minor spills, follow all precautions indicated above and cleanup immediately. Sweep up and dispose of wastes and broken or empty containers in a landfill approved for pesticide use.

GENERAL INFORMATION

Diasol 50W 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. Application should be repeated as necessary to maintain control.

Since Diasol 50W is a wettable powder formulation, constant agitation is necessary during application.

NOTE: The California Department of Agriculture has set a 5-day reentry for diazinon on citrus, grapes, peaches and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of two or more organic phosphate pesticides is applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

Note: Mites will be suppressed if Diasol 50W is used in the regular cover spray program. Slight russetting 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 Diasol 50W plus 2 gals. of dormant oil per 100 gals. of water. Apply as a dormant spray.

Aphids, Brown mite (Clover mite), Twospotted 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. Diasol 50W plus 1½ gals. of light medium horticultural oil per 100 gals. of water. Apply when scale crawlers are present.

Apricot mealybug: Mix 1 lb. 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, Blueberry maggot, Aphid Thrips, Twospotted 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, Dewberries, Loganberries, Raspberries)—Leafhoppers, Thrips, Aphids, Twospotted mite, Raspberry sawfly: Mix 1 lb. 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.

Dryberry 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.

Cherries—Brown apricot scale, San Jose scale, Black scale, Black cherry aphid eggs, Brown mite eggs: Mix 1½ lbs. of Diasol 50W plus 3 gals. of dormant oil per 100 gals. of water. Apply as a dormant spray.

Eyespotted bud moth, Fruitree 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.

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FRUIT AND NUT INSECTS

Almonds—Mites, Twig borers: Apply 1-1½ lbs. per 100 gals. of water.

Parlatoria scale, San Jose scale: Mix 1-1½ lbs. Diasol 50W 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 Diasol 50W 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.

Eyespotted bud moth, Fruittree leafroller, Mealybug: Mix 1 lb. per 100 gals. of water. Make 3-8 cover spray applications, beginning in the pink stage.

Do not apply within 14 days of harvest.

Apples and Pears—Codling moth, Rosy apple aphid, Green apple aphid, Woolly apple aphid, Mites: Mix 1 lb. Diasol 50W 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 Diasol 50W 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 100 gals. of water. Apply early in the season when crawlers first appear. If infestation warrants, make a second application 7-10 days later.

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.

Cranberries—Blackheaded fireworm, *Rhopobota Naevana*: 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, Tangelos, Tangerines, Citrus Citron, Kumquats, and hybrids of these)—Citrus aphid, Cottonycushion scale crawlers, and Soft 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.

Fruittree 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.

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Do not apply during bloom. Do not apply to citrus within 21 days of harvest.

Grapes—Pacific spider mite, Leafhoppers, Grape berry moth, Grape leafhopper: 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.

Olive—Olive scale: Mix 1/4-1 lb. Diasol 50W plus 1 1/2 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 Diasol 50W plus 2 gals. of dormant oil per 100 gals. of water. Apply as a dormant spray.

Peach twig borer, Parlatoria scale: Mix 1 lb. Diasol 50W plus 1 gal. of light medium summer horticultural oil per 100 gals. of water. Apply at petal fall.

Aphids, Brown mite (Clover mite), Twospotted 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 1/2 lb. of Diasol 50W plus 1 1/2 gals. 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 (Peaches 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 1 1/2-2 lbs. per 100 gals. of water timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestations, 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 Diasol 50W plus 2 gals. of dormant oil per 100 gals. of water. Apply as a dormant spray.

Pear psylla: Mix 1/2-1 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.

Tentiform leafminer, 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 casebearer, Walnut caterpillar: Apply 2-6 lbs. per acre as a foliage spray. Do not apply after husks crack.

Pineapple—Pineapple scale: Apply 10 lbs. Diasol 50W plus 2 gals. of light medium horticultural oil in 500 gals. of water per acre to the vegetative slips on the plant following harvest of the pineapple.

Pineapple mealybug: Apply 4 lbs. per acre. May be applied on day of harvest.

Pineapple forage 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, Parlatoria scale, Brown almond mite: Mix 1 lb. of Diasol 50W plus 2 1/2 gals. of dormant oil per 100 gals. of water. Apply as a dormant spray. For late April or May applications, mix 1 lb. of Diasol 50W 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.

Leafy plum aphid, Mealy plum aphid, Thistle aphid: Apply 1/2-1 lb. per 100 gals. of water.

Do not apply within 10 days of harvest.

Strawberries—Aphids, Twospotted spider mite: Apply 1 lb. in 100 gals. of water per acre.

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100 gals. of water per acre.

cyclamen mite: Apply 2 lbs. in 100 gals. of water per acre. Direct spray to plant crowns. Plants should be sufficiently irrigated to assure thorough coverage of the foliage. Make additional applications, if necessary, after harvest.

soil cricket: Broadcast 2 lbs. per acre when insects are present. Apply 1-2 days before transplanting and mix into the top 1-2 inches of soil immediately.

strawberry leafroller: mix 1/4-1 lb. per 100 gals. of water. Apply 200 gals. spray per acre when blossoms show color.

Do not apply within 5 days of harvest.

Walnuts—Aphids, Mites: Apply 2 lbs. per acre as a foliage spray.

lodging moth, Scale crawlers, Walnut caterpillar: Apply 6 lbs. per acre.

Do not apply after the husks open.

VEGETABLE FOLIAR INSECTS

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

Beans (Pole Beans, Snap Beans, Lima Beans)—Black bean aphid, Mexican bean beetle, Leafminers: Apply 1-1 1/2 lbs. per acre.

Cucumber beetle: Apply 1/2-3/4 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—Dipterous 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 beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

Broccoli, Cabbage, Cauliflower—Aphids, Diamondback moth, Imported cabbageworm, dipterous 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.

Dipterous 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 fed. Tops should not be used for feed or food.

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.

Eggplant and Endive—Aphids, Dipterous leafminer: Apply 1 lb. per acre. Do not apply within 10 days of harvest.

Melons and Squash (Cantaloupes, Casabes, Crenshaws, Honeydew Melons, Muskmelons, Persian Melons, and hybrids of these; Watermelons and their hybrids; Summer and Winter Squash) Aphids, Leafhoppers, Mites: Apply 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 House Mix 4-8 lbs. in 50 gals. (50W) and spray on mushroom houses immediately by heating, and spawning.

To treat wooden structures after pasteurizing, use a brush.

Do not treat compost.

Onions—Onion thrips: Apply 1 lb. per acre within 10 days of harvest.

Peas—Aphids, Leafhoppers: Apply 1 lb. per acre. May be picked immediately and fed to dairy and beef cattle. Do not apply if forage is to be cut for hay.

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

Potatoes—Aphids, Dipterous leafminer: Apply 1 lb. per acre.

Banded cucumber worm: Apply 1/2-1 lb. per acre.

Do not apply within 10 days of harvest.

Radishes, Parsnips—Dipterous leafminer: Apply 1 lb. per acre within 10 days of harvest.

Spinach and Beets—Aphids: Apply 1/2-1 lb. per acre. Do not apply within 14 days of harvest.

Squash (Summer and Winter)—Aphids: Apply 1 lb. per acre.

Sweet Corn—Corn earworm: Apply 1 lb. per acre. Corn silks first appear. Two applications at 7-10 day intervals will usually be required. Do not apply to dairy and beef cattle. Refer also to Corn use.

Tea trees—Aphids: Apply 1 lb. per acre. To control leafhoppers, apply 1 lb. per acre.

Banded cucumber worm: Apply 1/2-1 lb. per acre.

Vinegar fly (Drosophila): Weekly applications.

Do not apply within 10 days of harvest.

Watercress (Hawaii): Apply 100 gals. of water per acre. Do not apply within 10 days of harvest. Repeat applications 7-10 days of harvest.

VEGETABLE SOIL INSECTS

Discol 50W should always be applied in sufficient water to assure thorough coverage of the foliage.

Carrot rust fly: Apply 4 lbs. per acre at planting time.

Cutworms (Surface): Apply 1 lb. per acre.

Broccoli: K

Brussels Sprouts: L

Cabbage: L

Cantaloupes: M

Cauliflower: P

Celery: P

Collards: P

Cucumbers: P

Endive (escarole): P

Broadcast 4-8 lbs. per acre. Mix into the soil immediately, 4-6 inches for subterranean.

Garden symphylans: Apply 1 lb. per acre.

Cabbage: C

Carrots: L

Radishes: S

Red Beets: T

Broadcast 20 lbs. per acre. Mix into the soil immediately, 4-6 inches for subterranean. Control other soil insects (mole crickets, etc.).

Do not spray livestock directly except as indicated below under Livestock Insects, with either air or ground equipment.

Do not treat during bloom to avoid injury to pollinating insects.

Corn—Corn rootworm larvae—(Postemergence Basal Treatment) Apply 1½-2½ oz. per 1000 linear feet of corn row in sufficient water to wet base of corn plant and a narrow band of soil next to the plant. Refer to row spacing chart for amounts recommended per acre. Cover treated band with 2-3 inches of soil using a disk harrow or cultivator immediately after spraying. Application should be made at the first sign of corn rootworm larvae. Application should not be made later than June 24 in the Middle Corn Belt or July in the Northern Corn Belt.

SUGGESTED RATES ACCORDING TO ROW SPACING FOR CORN ROOTWORM LARVAE CONTROL

Spacing	Linear Feet of Corn Row/Acre	Amount of Dieldol 50W per Acre
		Postemergence Basal Treatment
48"	10,890	14-28 oz.
42"	12,455	15½-31 oz.
40"	13,068	16-32 oz. (1-2 lbs.)
36"	13,939	17½-35 oz.
36"	14,250	18-36 oz.
30"	17,424	22-44 oz. (1½-2¼ lbs.)
24"	21,780	27½-55 oz.
20"	26,136	32-64 oz. (2-4 lbs.)
15"	34,848	44-88 oz.

Note: For row spacings not listed, calculate the appropriate dosage rates based on the 40-inch row figures.

Seedcorn maggot—Broadcast 4-8 lbs. per acre just prior to planting. Work into 2 inches of soil immediately.

Cutworms (Surface and Subterranean): Broadcast 4-8 lbs. per acre. For surface cutworms apply just prior to planting or when larvae first appear and work into 1-2 inches of soil immediately. Do not apply later than lay-by. For subterranean cutworms, apply just prior to planting and work into 3-6 inches of soil immediately.

Wireworms—Apply 6-8 lbs. per acre prior to planting and work into 4-8 inches of soil immediately.

Corn leaf aphid—Apply 1-2 lbs. per acre in sufficient water to provide complete coverage of the upper portions of plants. Repeat application as necessary.

Grasshoppers—Apply 1 lb. per acre.

Sap beetle—Apply 2-2½ lbs. per acre. Add 1-2 gals. of soluble mineral oil per acre to the spray mixture. Consult local agricultural authorities for proper timing of sprays.

Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle, and sheep.

Cotton—Spider mites, Aphids, Leafhoppers, Lygus bug, Cotton leafworm, Cotton leafperforator: Apply 1-2 lbs. in 5-25 gals. of water per acre. Repeat as infestation warrants.

Do not apply within 14 days of harvest. Do not graze treated cotton plants, or feed gin wastes to livestock.

Cowpeas—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.

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

Leopedeza—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: Livestock (1) 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 midge: Apply ½-1 lb. per acre when 90% of the heads have emerged from the boot. Repeat application within 4 days.

Sprinkler Can: 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 Arborvitae, Azalea, Birch, Boxwood, Camelia, Carnation, Chrysanthemum, Douglas fir, Elm, Gladioli, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Oak, Pine, Plum, Poplar, Rhododendron, Rose, Spruce, and Willow, apply the recommended rates indicated below.

Insects	Amount Dieldol 50W to use	
	per 3 gals. water	per 100 gals. water
Aphids, Bagworms, Carnation bud mites, Carnation shoot mites, Clover mites, Cyclamen mites, Dipterous leafminers, European pine shoot moths, European red mites, Flea beetles, Holly bud moths, Leafhoppers, Oblique root weevils, Omnivorous leafhoppers, Privet mites, Scale crawlers (Cottony cushion, Icerya, Pine needle, San Jose, Soft scale), Thrips, Two-spotted mites, Webworms, Whiteflies	½ oz.	1 lb.

Apple-and-thorn skeletonizers, Cotoneaster webworms, Full webworms, Hemlock chermes, Oak loopers, Obliquebanded leafrollers, Pear slugs, Tent caterpillars	1½ oz.	3 lbs.
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Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, and Gardenia, since injury to the plants may occur.

Mimosa webworms: Mix ½ oz. in 3 gals. of water (or 1 lb. in 100 gals. of water) and apply as a thorough foliar 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-ft. band of soil around the house as well as the house foundation wall to a height of 2-3 ft. Repeat application if necessary.

Insects	Rate/1000 sq. ft.		Remarks
	Dieldol 50W	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, Flea beetles, Lawn Billbugs, Sod 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 flea beetles, mow grass and water well before treatment, but delay application until grass is dry. Do not water again until necessary.

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cation 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, Dipterous leafminer, Aphids: Apply $\frac{3}{4}$ -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 $\frac{1}{2}$ -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 $\frac{1}{2}$ - $\frac{3}{4}$ lb. per acre. Do not apply within 3 days of harvest.

Cutworms: Broadcast 4-6 lbs. per acre before transplanting and work into 2-4 inches of soil immediately.

Green June beetle larvae: Mix $\frac{1}{4}$ 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: Broadcast Application: Broadcast 3 lbs. per acre, 3-4 weeks before transplanting. Work into 2 inches of soil immediately.

Transplant Water Application: Mix $1\frac{1}{2}$ -3 oz. in 50 gals. of transplant water.

Wireworms: Broadcast Application: Broadcast 4-6 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.

Rangeland, Pasture, Grass Forage, Ditch Banks, Road-sides, Wasteland, Noncrop Areas, Barrier Strips

Grasshoppers: Apply $\frac{3}{4}$ -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 gallonage, high pressure spray: Mix $\frac{1}{2}$ lb. in 100 gals. of water, and apply at the rate of 1 gal. per animal.

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

necessary.

Brown dog ticks, Bermuda mites, Chiggers, Fleas, Leafhoppers	1 $\frac{1}{4}$ oz.	3 gals.	Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house.
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Millipedes	8 oz.	3 gals.
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Rhodesgrass scales	5 oz.	25 gals.*	Apply when crawlers first emerge.
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* Application can be made in 3 gals. of water per 1000 sq. ft. Thoroughly water treated area immediately following application.

Boxelder bugs: Spray bugs outside the home with $1\frac{1}{2}$ -2 $\frac{1}{2}$ 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 $\frac{3}{4}$ 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 Kidney) Seedcorn maggot: Mix $\frac{1}{2}$ 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 mixing 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 Diasol 50W at rates indicated on fungicide package. Failure to use a fungicide with Diasol 50W 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, $\frac{1}{2}$ oz. of graphite per bushel of seed should be added as a dry lubricant. Adjust the planter to give the required rate of seed delivery with the treated seed.

Warning: Treated seed must not be used for or mixed with food or animal feed, 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. Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of all excess treated seeds by burial away from bodies of water.

FLY CONTROL

Fly control in barns and animal sleeping quarters (except dairy barns, 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 Diasol 50W in 25 gals. of water and apply as an overall spray to ceilings and walls of livestock sheds, calf barns, hog barns, loafing sheds, and other farm buildings except poultry houses, dairy barns, and milk rooms. Areas where flies congregate, such as garbage dumps and corrals, 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 amounts of Diasol 50W with 1 lb. of sugar (or 2 cups of syrup or molasses) for the desired application.

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

For sprinkling can application, mix 2 oz. with the sugar in 5 gals. of water and sprinkle lightly over the floor in areas frequented by flies. Applications everyday 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.