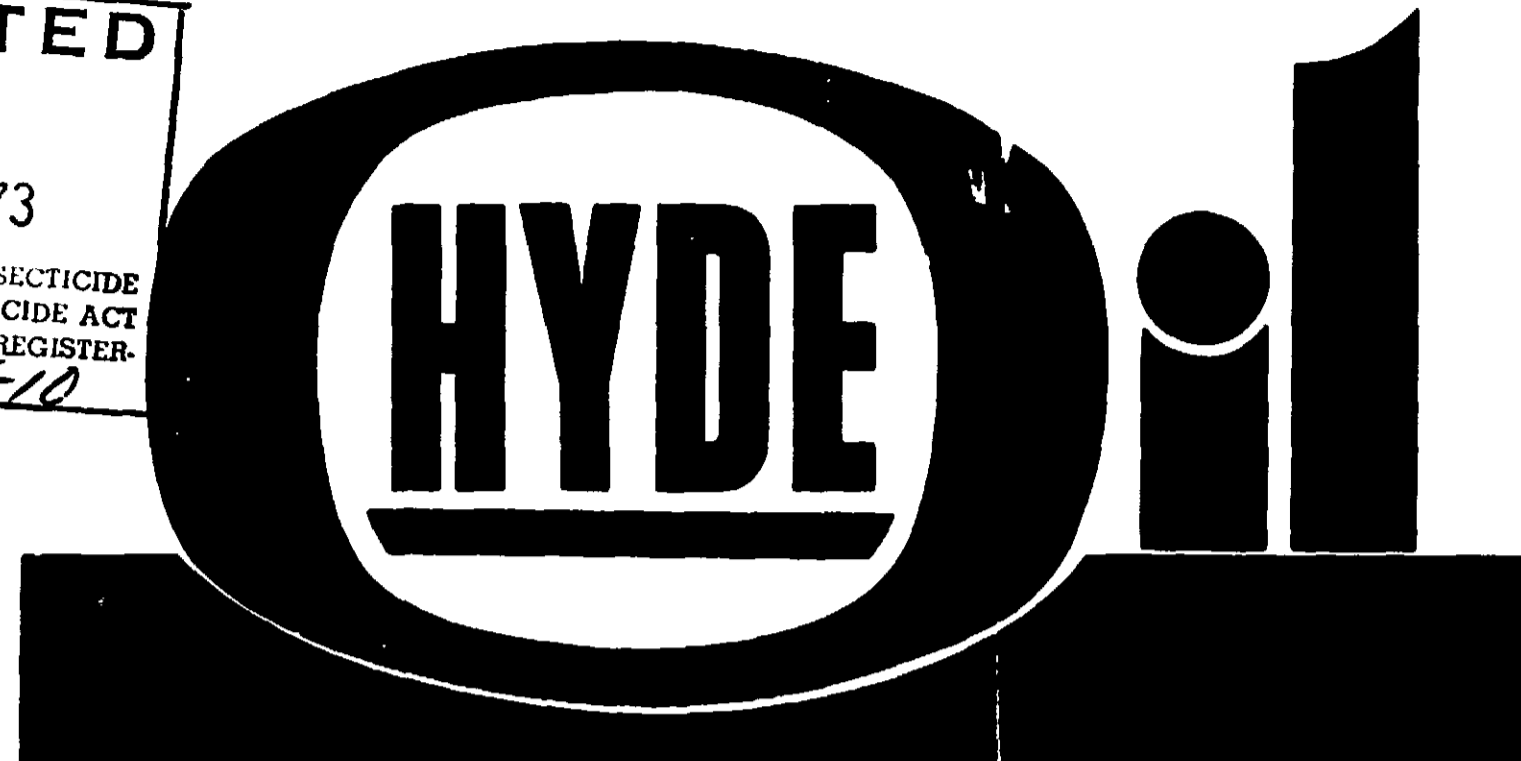


ACCEPTED
 AUG 17 1973
 UNDER THE FEDERAL INSECTICIDE
 FUNGICIDE AND RODENTICIDE ACT
 FOR ECONOMIC POISON REGISTER-
 ED UNDER NO. 2435-10



**CIODRIN® and VAPONA® INSECTICIDE
 READY-TO-USE
 ANIMAL SPRAY SOLUTION
 DAIRY ^{Cattle} AND BEEF CATTLE**

**CONTROLS HORN FLIES, STABLE FLIES, FACE
 FLIES, HOUSE FLIES, AND LICE**

ACTIVE INGREDIENTS	BY WEIGHT
Dimethyl Phosphate of Alpha-Methylbenzyl 3-Hydroxy-Cis-Crotonate	1.00%*
2,2-Dichlorovinyl Dimethyl Phosphate	0.23%**
Related Compounds	0.02%**
Petroleum Hydrocarbons	98.52%
INERT INGREDIENTS	0.23%
TOTAL	100.00%

*CIODRIN® Insecticide
 **Equivalent to 0.25% VAPONA® Insecticide

EPA REG. No. 2435-10

CAUTION

**KEEP OUT OF THE REACH OF CHILDREN
 & DOMESTIC ANIMALS.**

**HYDE OIL DIVISION
 Pawnee Corporation
 PIPESTONE, MINNESOTA**

PRECAUTIONS IN USING

CAUTION: AVOID INHALATION of mist and contact with skin. In case of contact with skin or eyes, flush with plenty of water, for eyes get medical attention. Keep away from open flame. Wash thoroughly with soap and water after handling and before eating or smoking. Do not contaminate feed, water, or foodstuffs. Harmful if swallowed. If swallowed, induce vomiting immediately and get medical attention. Atropine is antidotal. 2-PAM is also antidotal and may be administered in conjunction with Atropine.

**DO NOT REUSE CONTAINER
 DESTROY WHEN EMPTY**

This product is toxic to fish and wildlife. Keep out of any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

NOTICE OF WARRANTY: Hyde Oil Company MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE, OR OTHERWISE, EXPRESS OR IMPLIED concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on this label.

U.S. GALLONS

GENERAL DIRECTIONS

Animal Spray Solution is a specially prepared ready-to-use insecticide suitable for use in conventional hand, power or automatic spray equipment and in back rubbers. Animal Spray Solution is approved for lactating dairy animals. No feed-off is necessary when used on beef animals, however, do not treat animals within one day of slaughter.

Apply with hand, power or automatic equipment to moisten the hair only and not in excess of 2 fluid ounces daily per animal. Do not wet the skin due to possible skin irritation. Do not apply regularly to calves under 6 months of age. Brahman cattle should not be treated as they may show hypersensitivity to organic phosphates.

Do not apply dermally in combination with trichlorofon.

**USE AND DIRECTIONS
 FOR APPLICATION**

Lactating Dairy and Beef Animals

(Horn Flies, Stable Flies, Face Flies, and House Flies)

For the control of horn flies, stable flies, face flies, and house flies, make a light application daily as a fine mist to thoroughly cover all parts of the animal including the legs.

Back & Face Rubbers

For the control of horn flies and face flies on lactating dairy and beef animals, use in back rubbers and face rubbers. Use 1 gallon for each 20 linear feet of burlap back rubber. For automatic back rubbers recharge the reservoir as needed. Animals must rub face on rubbers for best face fly control.

Lactating Dairy and Beef Animals

(Lice)

Make 1-2 applications of 3-3½ ounces of finished spray at 14 day intervals as a mist spray to thoroughly cover all parts of the animal. If material is applied by fogging or misting equipment, the maximum spraying time per animal is 20 seconds.

ACCEPTED
 SFP 23 1975
 Under the Federal Insecticide, Fungicide, and Plant Growth Regulator Act as amended for the pesticide registered under EPA Reg. No. 2393-274

Hopkins

**DIAZINON[®]* 14G
 GRANULAR INSECTICIDE**

For control of soil insects, corn rootworms, wireworms, cutworms, and other crop pests listed in the directions.

ACTIVE INGREDIENTS

Diethyl (2-isopropyl-6-methyl-4-pyrimidinyl) Phosphorothioate	14.3
Inert Ingredients	85.7
TOTAL	100.0

Diazinon Trade mark of Ciba-Geigy
 EPA Reg. No. 2393-274 AA

EPA Est. No. 2393 WI 1

CAUTION

KEEP OUT OF REACH OF CHILDREN

Keep this product out of reach of children. Avoid contamination of food and feed. Do not store near food or feed products. Avoid inhalation of dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. May be absorbed through skin.

FISH AND WILDLIFE CAUTION

This product is toxic to fish, shrimp, crabs, birds, and other wildlife. Keep out of lakes, streams, ponds, marshes, and estuaries. Birds feeding on treated areas may be killed. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of excess. Shrimp and crabs may be killed at application rates recommended on this label. Do not apply where there are important resources. Apply this product only as specified on this label.

Recycle base container. Destroy if by drying or burning. Avoid smoke or fumes.

SEE ATTACHED PAMPHLET FOR USE INSTRUCTIONS

NET CONTENTS

Manufactured by

POUNDS

HOPKINS AGRICULTURAL CHEMICAL CO.

Madison, Wisconsin 53701

DIRECTIONS FOR USE

Applications to the soil should be worked into the top few inches immediately after application with a rotary hoe, cultivator, disk, narrow, or other suitable means for greatest effectiveness.

FIELD AND FORAGE INSECTS

BEANS (Pinto)

European Cornstalk Borers. Apply 7-14 lbs. per acre in a 6-inch band centered over the row when beans are 1-4 inches high.

CORN

Basal Treatment for European Cornstalk Borer. Basal Treatment

Apply 7-14 lbs. per acre 1,000 linear feet of row in a band over the row at first sign of rootworm. Do not later than June 24 in the Middle Corn Belt or July 1 in the Northern Corn Belt. Cover treated band with 2-3 inches of soil.

When field count per acre immediately following application is 100 egg masses per 100 plants.

European Corn Borer. Apply 7-14 lbs. per acre over the corn so granules fall into whorls, when 75% of plants show first signs of European corn borer feeding. Make a second application 7 days later if needed. To control second-generation corn borers, apply 7-14 lbs. per acre, as above, when field count shows 100 egg masses per 100 plants.

Can be applied by aircraft for the above use. This material should be uniformly applied to the area to be treated at the recommended rates given above.

Post-emergence Treatment for Control of Corn Rootworm Larvae and European Corn Borer. (North Central Corn Belt Only) When infestations of these insects coincide, a single application may be made to replace the above basal treatment for European corn borer and one of the above applications for the control of first-generation European corn borer. Use the combination treatment where European corn borer egg masses or larvae are present at the same time as rootworm larvae should be controlled. Treatment should be made at the peak of first-generation European corn borer feeding, but not later than June 24 in the Middle Corn Belt or July 1 in the Northern Corn Belt for adequate rootworm control.

Apply 7-14 lbs. per acre over the corn plants. Cover granules falling to the ground by throwing 2-3 inches of soil into the corn row with a disk hiller or cultivator.

Repeat application to corn whorls 7 days later, if needed, for control of European corn borer. To control second-generation corn borers, apply 7-14 lbs. per acre, as above, when field count shows 100 egg masses per 100 plants.

Armyworms. Apply 7-14 lbs. per acre over the corn so granules fall into whorls when armyworms first appear. Repeat application if necessary.

Second-generation Corn Borers. Apply 7-14 lbs. per acre over the corn so granules fall into whorls of second-generation borers. Repeat application one week later.

NOTE: Do not feed treated fodder to dairy or beef cattle or sheep for 10 days following application. Corn may be picked immediately. Temporary spotting of foliage sometimes occurs following application.

SUGGESTED RATES ACCORDING TO CORN ROW SPACING

Row Spacing	Linear feet of corn row/acre	Amount of Diazinon 14 G per acre -- Postemergence basal treatment
30"	10,890	3.6 lbs.
27"	12,395	4.6 lbs.
24"	13,062	3.7 lbs.
21"	15,979	3.7 lbs.
18"	14,829	4.0 lbs.
15"	17,774	4.9 lbs.
12"	21,726	4.1 lbs.
9"	26,177	7.1 lbs.
6"	34,645	9.2 lbs.

NOTE: The suggested rates are based on a standard application rate of 14 lbs. per acre.

For control of European corn borer, apply 7-14 lbs. per acre over the corn so granules fall into whorls when 75% of plants show first signs of European corn borer feeding. Make a second application 7 days later if needed. To control second-generation corn borers, apply 7-14 lbs. per acre, as above, when field count shows 100 egg masses per 100 plants.

For control of European corn borer, apply 7-14 lbs. per acre over the corn so granules fall into whorls when 75% of plants show first signs of European corn borer feeding. Make a second application 7 days later if needed. To control second-generation corn borers, apply 7-14 lbs. per acre, as above, when field count shows 100 egg masses per 100 plants.

When field count per acre immediately following application is 100 egg masses per 100 plants.

Apply 7-14 lbs. per acre over the corn so granules fall into whorls when 75% of plants show first signs of European corn borer feeding.

Repeat application to corn whorls 7 days later, if needed, for control of European corn borer. To control second-generation corn borers, apply 7-14 lbs. per acre, as above, when field count shows 100 egg masses per 100 plants.

Apply 7-14 lbs. per acre over the corn so granules fall into whorls when armyworms first appear. Repeat application if necessary.

Apply 7-14 lbs. per acre over the corn so granules fall into whorls when armyworms first appear. Repeat application if necessary.

PEANUTS

Apply 7-14 lbs. per acre over the peanuts when the plants are 10-12 inches high. Repeat application if necessary.

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NOTE: LIVESTOCK: Do not feed treated fodder to dairy or beef cattle or sheep for 10 days following application. Corn may be picked immediately. Temporary spotting of foliage sometimes occurs following application.

SOYBEANS

Apply 7-14 lbs. per acre over the soybeans when the plants are 10-12 inches high. Repeat application if necessary.

Apply amount per acre recommended according to row spacing chart for basal treatment.

Seed Corn Maggots: Broadcast 14.28 lbs. per acre just prior to planting. Work into soil 2 inches.

Garden Symphylans (Centipedes): Broadcast 70 lbs. per acre just prior to planting and work into soil 4-8 inches. This pre-plant treatment will also control other soil insects, cutworms (surface and subterranean) and wireworms.

Wireworms: Broadcast 21.28 lbs. per acre before planting. Work into soil 4-6 inches.

PEANUTS

Southern Corn Root Worms: Broadcast 28 lbs. per acre or the equivalent in a band over the fruiting zone, just prior to pegging or up to top few inches of soil.

Cutworms: Apply 14 lbs. per acre in a 12 inch band over the row when cutworms first appear. Up to three additional applications at three-day intervals may be necessary. Do not apply within 21 days of peanut harvest.

Lesser Cornstalk Borer: Apply 14.21 lbs. per acre in a band over the fruiting zone just prior to pegging. Cover the band with 1.2 inches of soil.

NOTE: LIVESTOCK: Do not feed any crop material that may be fed prior to the 7-day delay in treatment and use may be made after 21 days following treatment.

SORGHUM

Cutworms: Broadcast 14.28 lbs. per acre just prior to planting. Work into soil 2-3 inches to control surface cutworms, 3-6 inches to control subterranean cutworms.

Lesser Cornstalk Borer: Apply 7-14 lbs. per acre in a 10 inch band over the row at planting time or as crop emerges. Cover the band with 1.2 inches of soil.

NOTE: Do not apply directly to the seed furrow as reduction of sorghum seed germination may occur.

SOYBEANS

Cutworms: Broadcast 14.28 lbs. per acre just prior to planting. Work into soil 2-3 inches to control surface cutworms, 3-6 inches to control subterranean cutworms.

Lesser Cornstalk Borer: Apply 7-14 lbs. per acre in a 6 inch band over the row just prior to planting or when soybeans are 12 inches high. Cover the band with 1.2 inches of soil.

SUGAR BEETS

Sugar Beet Root Maggot: Apply 7-14 lbs. per acre in a 5-7 inch band (based on row width of 22 ins.) or 4.7-9.1 oz. per 1,000 linear feet of row in a 5-7 inch band either incorporating 2-3 inches at planting or applying above the seed after the seed is covered. Apply ahead of the press wheel. If a heavy maggot infestation is anticipated or a wet spring occurs, a second application may be made early postemergence, when the adult maggots (flies) first start to appear. If a second application is necessary, apply 7-10.7 lbs. per acre in a 5-7 inch band (based on row width of 22 inches) or 4.7-7.1 oz. per 1,000 linear feet of row in a 5-7 inch band directly over the row.

NOTE: Fertilizer should not come in direct contact with the seed or injury will occur.

Wireworms: Broadcast 21.28 lbs. per acre just prior to planting. Work into soil 4-8 inches.

SUGARCANE

Sugarcane Borers: Broadcast 10-17 lbs. per acre after joints have begun to form and when at least 5% of plants show signs of feeding in or under the leaf sheath but which have not bored into the stalks. Additional applications may be necessary to assure continuing control.

NOTE: Do not make more than four applications per growing season. Allow 28 days between last application and harvest. At that time bagasse and forage may be fed to livestock.

Wireworm: Apply 12 lbs. per acre in a 12 inch band over the open furrow, directly to seed pieces.

TOBACCO

Cutworms: Broadcast 14.21 lbs. per acre before transplanting. Work into soil 2-4 inches.

Field Crickets: Apply 7 lbs. per acre when crickets are present. Make application to plant beds or furrows 1-2 days before planting or transplanting and work into soil 1-2 inches.

Seed Corn Maggots: Broadcast 10.7 lbs. per acre 3-4 weeks before transplanting. Work into soil 2-4 inches.

Wireworms: Broadcast 14.21 lbs. per acre 3-4 weeks before transplanting. Work into soil 4-9 inches.

FORAGE CROPS (ALFALFA, CLOVER, COWPEAS, AND LESPEDEZA)

Cutworms: Broadcast 14.28 lbs. per acre just prior to planting. Work into soil 2-3 inches to control surface cutworms, 3-6 inches to control subterranean cutworms.

VEGETABLE CROP INSECTS

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, AND CAULIFLOWER

Root Maggots: Broadcast 14.21 lbs. per acre before planting or transplanting. Work into soil 3-4 inches.

ONIONS

Onion Maggots: Apply 14.28 lbs. per acre in broadcast soil treatment just prior to planting. For complete control, work the top 3-4 inches of soil by digging, harrowing or other suitable means.

RADISHES

Root Maggots: Apply 10-14 lbs. per acre (2.1-2.4 lbs. oz. per 1,000 linear feet of row) in broadcast soil treatment just prior to planting.

SWEET CORN

See Corn under Field and Forage Crops.

TOMATOES

Tomato Flies (Drosophila spp): Broadcast 7 lbs. per acre when flies first appear. Repeat in 7-10 day intervals as long as flies are present.

OTHER VEGETABLE INSECTS

CUTWORMS (SURFACE AND SUBTERRANEAN)

Broccoli	Cauliflower	Endive	Marigold	Plant Beans	Spinach
Brussels Sprouts	Celery	Garlic	Peas	Squash	Tomatoes
Cabbage	Collards	Lettuces	Potatoes	Summer Squash	Watercress
Cantaloupes	Cucumbers	Lima Beans	Peppers	Winter Squash	

Broadcast 14.28 lbs. per acre just prior to planting. Work into soil 2-3 inches to control surface cutworms, 3-6 inches to control subterranean cutworms.

Potatoes: Broadcast 14.28 lbs. per acre before planting. Work into soil 4-8 inches.

GARDEN SYMPHYLANS (CENTIPEDES)

Cutworms