

COPY A

MUSHROOMS: Mushroom Flies (Phorid and Sciarid Adults) - Use 1 1/2 fl. oz. per 10,000 cu. ft. as a vapor, fogging or aerosol treatment. Apply with aerosols or thermal fogging devices or dilute or undiluted formulations on steam pipes or hot plates. Direct air nozzles upward in mushroom house. Do not aim nozzle at mushrooms in the beds. Keep house closed for 30 to 60 minutes, but no longer than 4 hours during treatment. Adequately ventilate after treatment period. Daily applications may be required for heavy infestations for 10 to 20 days after spawning begins. For other infestations twice weekly applications are made when necessary. Do not use within 24 hours of harvest.

COPY B

Treat shrubbery and vegetation where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shore lines may be treated. Direct application to water is prohibited.

COPY C

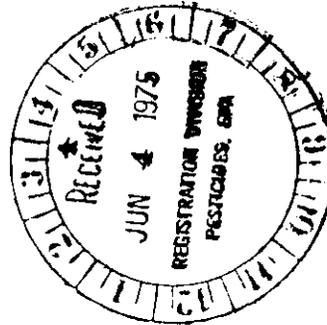
This product is toxic to fish, shrimp, crab, birds and other wildlife. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not apply where runoff is likely to 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 this product only as specified on this label.

ACCEPTED
JUL 16 1975
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
this product is registered as a pesticide
EPA Reg. No. 239-1281

RECEIVED
JUN 4 1975
REGISTRATION DIVISION
PESTICIDES, EPA



ORTHO DIBROM[®] 8 Emulsive



Naled Insecticide



Active Ingredients	By Wt.
*Naled	58%
Xylene	20%
Inert Ingredients	22%
*1,2-dibromo-2,2-dichloroethyl dimethyl phosphate	
Contains 8 pounds technical naled per gallon equivalent to 7.2 pounds naled.	
U.S. Pat. No. 2,971,882	



READ THE LABEL
DO NOT TAKE INTERNALLY
DO NOT GET IN EYES
DO NOT GET ON SKIN

DANGER: KEEP OUT OF REACH OF CHILDREN.
SEE BACK PANEL FOR ADDITIONAL DANGER STATEMENTS.
NET CONTENTS 1 GALLON LIQUID

2 of 3

ORTHO DIBROM® 8 Emulsive

STORE IN COOL, DRY PLACE.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH DANGER STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS. KEEP PESTICIDE IN ORIGINAL CONTAINER. DO NOT PUT CONCENTRATE OR DILUTE INTO FOOD OR DRINK CONTAINERS.

Not for use or storage in or around the home.

USE DESIGNATED AMOUNT OF PRODUCT IN THE FOLLOWING GALLONS WATER PER ACRE UNLESS OTHERWISE NOTED:

GROUND APPLICATION—Vegetable and Field Crops—30 to 250 gals. Cotton—3 to 20 gals. Deciduous Fruit Crops—60 to 800 gals. Citrus—400 to 3,000 gals. (On Young Fruit Plantings—Use a minimum of 15 gals. water per acre.)

Where Recommended for AIR APPLICATION—Field Crops—3 to 10 gals.

A short residual contact insecticide for kill of insect and mite adults and larvae present at the time of application.

Begin application at first sign of insects. Repeat as necessary. Do not apply within 4 days of harvest unless otherwise noted. Do not use with highly alkaline materials such as lime or bordeaux.

MIXING DIRECTIONS: Add to spray tank when $\frac{1}{4}$ to $\frac{1}{2}$ full with agitator running and maintain agitation until spraying is completed.

BEANS, LIMA BEANS (Dry Form); BEANS, LIMA BEANS, PEAS (Secculent Form): Alfalfa Looper, Aphids, Spider Mites, Lygus, Leaf Miner; GREEN BEANS: Aphids, Spider Mites, Loopers, Nidulids, Leafhoppers—1 pt. per acre in water to cover. 100 gals. per acre is preferable. Large Loopers, Stink Bugs— $\frac{1}{2}$ pts. per acre in water to cover. Do not apply within 1 day of harvest. Do not feed treated vines.

BROCCOLI, CABBAGE, CAULIFLOWER, BRUSSELS SPROUTS, KALE, COLLARDS: Imported Cabbageworm, Diamond-Back Caterpillars, Aphids—1 pt. per acre. Looper—2 pts. per acre. Do not apply within 1 day of harvest.

CELERY: Aphids, Loopers, Armyworms, Salt Marsh Caterpillars, Leaf Miners—Use ground application only with fine mist spray—1 pt. in 50 to 75 gals. water per acre on plants less than $\frac{1}{4}$ grown. On larger plants use $\frac{1}{2}$ pts. in 100 to 150 gals. water per acre. Do not apply within 1 day of harvest.

COTTON: Lygus— $\frac{1}{2}$ to 1 pt. per acre by air or ground. Leaf Perforator, Fleahoppers, Armyworms, Bollworms, Loopers and Fur Suppression of Mites—1 pt. per acre by air or ground. Apply at 7 to 10 day intervals while pests persist. FOR HEAVY POPULATION OF LISTED INSECTS—Use $\frac{1}{2}$ pt. per acre by air or ground in control programs with other insecticides registered for use on cotton. Do not apply after first bolls open. Do not graze livestock in treated fields.

CUCUMBERS, SUMMER SQUASH: Cucumber Beetles, Aphids, Spider Mites, Loopers, Thrips, Armyworms—1 pt. per acre in water to cover. Pickleworms, Leaf Miners— $\frac{1}{2}$ pts. per acre in water to cover. By Air—Use minimum of 10 gals. water per acre. May be used up to harvest.

EGGPLANT, PEPPERS: Aphids, Spider Mites, Bister Beetles, Flea Beetles, Leaf Miners, Whitefly—1 pt. per acre. May be used up to 1 day before harvest.

WALNUTS: Aphids— $\frac{1}{2}$ to 1 pt. to 100 gals. water. Do not apply within 10 days of harvest. Do not graze livestock in treated orchards.

GRAPES: Drosophila, Leafhoppers— $\frac{1}{2}$ to $\frac{3}{4}$ pt. per 100 gals. water. (100 to 130 gals. diluted spray per acre depending on size of vines.) Use only $\frac{1}{2}$ pt. per 100 gals. water on Muscat varieties. Do not use on Italia varieties as fruit injury may occur. Do not enter vineyards for 24 hours following treatment. Do not apply within 1 day of harvest.

HOPS: Aphids, Spider Mites, Corn Earworm, Hop Looper, Cutworm—1 pt. per acre. Do not apply within 4 days of harvest. Do not feed hayward waste.

SPINACH, CHARD, TURNIP GREENS: Aphids, Loopers, Armyworms, Salt Marsh Caterpillars, Leaf Miners—Use ground application only with fine mist spray—1 pt. in 50 to 75 gals. water per acre on plants less than $\frac{1}{4}$ grown. On larger plants, use $\frac{1}{2}$ pts. in 100 to 150 gals. water per acre. May be used 1 day before harvest.

MELONS (Cantaloupes, Honeydew, Muskmelons, Watermelons), PUMPKINS, WINTER SQUASH: Loopers, Armyworms, Leafhoppers, Spider Mites, Leaf Miners—1 to 2 pts. per acre (200 gals. diluted spray per acre.) May be used 1 day before harvest. Do not apply when temperature is over 90° F.

ORANGES, LEMONS, GRAPEFRUIT, TANGERINES: Aphids, Salt Brown Scale Crawlers, Mites, Citrus Cutworms, Leaf Roller (Tortrix)—1 pt. to 100 gals. water. Thrips (Blooms)— $\frac{1}{2}$ pt. per 100 gals. water. Use up to 7 days of harvest (Calif. and Ariz.—Do not apply within 1 day of harvest.) Do not enter citrus groves for 24 hours following treatment.

PEACHES (Western States Only): Lygus, Suppression of Mites, Peach Twig Borer, Oriental Fruit Moth (California Only)— $\frac{1}{2}$ pt. to 100 gals. water. To avoid fruit spotting, do not use within 30 days of harvest. Do not apply when temperature is over 90° F. Do not enter orchards for 24 hours following treatment.

RICE: Grasshoppers— $\frac{1}{2}$ to $\frac{3}{4}$ pt. per acre. Apply at first sign of insects. Do not make more than 3 applications. May be used 2 days before harvest.

SAFFLOWER (California and Arizona only): Lygus— $\frac{1}{2}$ pt. per acre. By Air—In 3 to 10 gals. spray per acre. Do not apply within 30 days of harvest.

STRAWBERRIES: Leaf Roller, Spider Mites, Aphids, Omnivorous Leaf Tier, Spittlebugs (Northwest)—1 pt. per acre. May be used 1 day before harvest.

SUGAR BEETS: Spider Mites, Leafhoppers—1 pt. per acre by air or ground. By Air—Use in 1 to 5 gals. water per acre. Do not apply within 2 days of harvest. Do not feed sugar beet tops.

TOBACCO: Hornworm—1 pt. to 100 gals. water, using up to 200 gals. diluted spray per acre. Flea Beetles—1 pt. per acre in water to cover. Apply at first sign of insects. Repeat as necessary.

TOMATOES (Field): Fruit Flies (Drosophila)—1 pt. in no less than 40 gals. water per acre with ground spraying. 7 to 10 gals. by air. Make first application 5 to 7 days before first picking and continue at 5 to 7 day intervals until the day before harvest. (Field and Greenhouse): Tomato Fruit Worm, Hornworms, Leaf Miners, Flea Beetles, Mites—1 pt. in 100 gals. water. Spray plants thoroughly. For Field—Use up to 200 gals. diluted spray per acre. Do not apply when temperature is over 90° F. May be used 1 day before harvest.

FOREST AND SHADE TREES: CONIFERS (Arborvitae, Douglas Fir, Fir, Hemlock, Juniper, Pine, Spruce): Suppression of Two-Spot and Red Spider Mites, Aphids, Spittlebugs, Zimmerman Moths, Juniper Webworms, Tussock Moths, Spruce Budworms, Adult Sierra Fir and Western Hemlock Bark Borers.

BROADLEAF TREES (Ash, Birch, Black Walnut, Box Elder, Dogwood, Elm, Evergreen Pear, Flowering Plum and Quince, Locust, Magnolia, Maple, Oak, Sycamore, Willow): Suppression of Two-Spot and Red Spider Mites, Aphids, Leaf Miners, Thrips, Elm Leaf Beetles, California Oakworms (California only), Spring and Fall Cankerworms, Fall Webworm, Oak Webworm and Tussock Moths—1 pt. in 100 gal. water. Use when infestation is evident, repeat as necessary.

GREENHOUSE, VAPOR TREATMENT OF ROSES, OTHER ORNAMENTAL PLANTS, TOMATOES, CUCUMBERS: 5 to 1 fl. oz. per 10,000 cu. ft. when plants are dry. Apply undiluted on heat pipes (or in open pans on hot plates). Apply continuous flow of vapor through center of each range depending upon width. Application to cold pipes should be followed by immediately hosing pipes after they are hot. With hot water systems, close house for at least 3 hours. Houses may remain closed overnight following approved respirator. Ventilate house before workers re-enter. Wear respirator when entering treated houses to ventilate. Probe rubber sheet during treatment and until house is ventilated. Do not apply to tomatoes or cucumbers closer than 1 day before treatments at 3 or 4 day intervals. Repeat as necessary. Adult Whiteflies—Make 2 applications at 7 day intervals. Repeat. **WARNING**—Avoid over-treatment and direct application to plants as injury may result. White Butterfly and Golden Rapture rose and Dutchman's Pipe may be injured by DIBROM vapor.

FRUIT FLIES (Drosophila sp.) in and around Food Processing Plants, Loading Decks, Cull Piles and Refuse Areas: coarse spray to walls, floors, doorways, windows, refuse and cull piles where insects congregate. Apply every 5 to 7 days as necessary. Avoid contamination of feeds, foodstuffs and food processing machinery. Do not apply when plants are in operation or when in contact with foods. Cover food containers during spraying.

GNAT, STABLE FLY (Dog Flies), AND HOUSE FLY CONTROL—RESIDENTIAL AREAS, CROPS LISTED ON LABEL, YOUR STATE FISH AND GAME AGENCY BEFORE APPLYING THIS PRODUCT. It is not necessary to avoid farm buildings. Make application recommendations for use limitations near harvest. This rate of application will kill shrimp. Do not apply to tidal or marsh waters. 0.8 to 4 fl. oz. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. West—Apply 1.6 to 4 fl. oz. per acre. OR COLD FOG: Use 3 to 5 qts. per 100 gals. water. Calibrate equipment (rate of travel and output) to apply 0.1 to 0.25 lb. of diluted spray per acre. **ADULT MOSQUITO CONTROL—RESIDENTIAL AREAS, CROPS LISTED ON LABEL, SWAMPS, WOODLAND, LIVESTOCK:** Consult your State Fish and Game Agency before applying this product. Make applications during peak of infestation near harvest. This rate of application will kill shrimp. Do not apply to tidal or marsh waters which are important shrimp production areas. Apply 2 to 8 qts. of diluted spray per acre. West—Apply 1.6 fl. oz. per acre diluted with water. Apply 2 to 8 qts. per 100 gals. water. Calibrate equipment (rate of travel and output) to apply 0.1 lb. technical naled per acre. Do not make more than 3 applications.

CATTLE: Consult your State Fish and Game Agency before applying this product. Make applications during peak of infestation near harvest. This rate of application will kill shrimp. Do not apply to tidal or marsh waters which are important shrimp production areas. Apply 2 to 8 qts. of diluted spray per acre. West—Apply 1.6 fl. oz. per acre diluted with water. Apply 2 to 8 qts. per 100 gals. water. Calibrate equipment (rate of travel and output) to apply 0.1 lb. technical naled per acre. Do not make more than 3 applications.

CORRALIS, ADJACENT RANGELAND, HOLDING PENS (Dairy and Beef Cattle, Hogs, Sheep, Horses): Mouse Flies: Dilute 1 to 2 1/2 pts. in 10 gals. water. Apply 1 gal. diluted spray per acre. Apply over areas with animals present.

CLOVER MITES, ROACHES, EARWIGS AND LEAFHOPPERS Outside Dwellings and in Lawns: Use 1 fl. oz. in 3 gals. trees for general pest cleanup.

GRASSHOPPERS, RANGE CATERPILLARS: Rangeland— $\frac{1}{2}$ to $\frac{3}{4}$ pt. per acre by air or ground. Young Grasshoppers—1 pt. per acre. By Air—Use in 1 to 5 gals. water per acre. Apply when hoppers hatch is completed. Repeat as necessary. Animals not treated areas.

DANGER: Concentrate causes eye and skin damage. Do not get in eyes, on skin or on clothing. May be fatal if swallowed. Mucosal damage may occur, and if gastric lavage is indicated it should be performed cautiously. In case of contact, immediately remove contaminated clothing and wash with soap and water. Seek medical attention.

Note to Physicians: Emergency Information—call (415) 233-3737. Naled is a cholinesterase inhibitor. Atropine is antidotal. Mucosal damage may occur, and if gastric lavage is indicated it should be performed cautiously.

Avoid contamination of feed, foodstuffs and drinking water. DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAMES. Do not store diluted spray. M after use to avoid corrosion.

This product is toxic to fish, birds and other wildlife. Birds feeding on treated areas may be killed. Keep out of lakes, streams and application areas recommended on this label. Do not apply where these are important resources. Do not apply where honey bees are present. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only to areas where necessary.

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your State Beekeeper.

DESTROY CONTAINER WHEN EMPTY. NEVER RE-USE.

CONDITIONS OF SALE: 1. Chevron Chemical Company (Chevron) warrants that this material conforms to the chemical description on the label. Chevron neither makes, nor authorizes any agent or representative to make, any other warranty of FITNESS or of MERCHANTABILITY.

2. Critical and unforeseeable factors beyond Chevron's control prevent it from eliminating all risks in connection with the use of this material and crops to which the material is applied, lack of complete control, and damage caused by drift to other plants or crops. The user is advised that the user should follow label directions are followed. Buyer and user acknowledge and assume all risks associated with handling, storage, and use of this material.

Chevron Chemical Company
Ortho Division, San Francisco, CA 94118, Richmond, CA 94804
Product 2738 Made in U.S.A.
Form 5536-M3

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