

# red-top DIBROM® 8 SPRAY

NALED INSECTICIDE

**ACTIVE INGREDIENTS:**

*Naled	By Wt.	58%
Xylene		20%
<b>INERT INGREDIENTS:</b>		<b>22%</b>
*1,2-dibromo-2,2-dichloroethyl dimethyl phosphate		<b>100%</b>

Contains 8 pounds technical NALED. Equivalent to 7.2 pounds NALED per gallon.

EPA Reg. No. 2935-284-AA

**DANGER: KEEP OUT OF REACH OF CHILDREN!**

**DANGER: Corrosive, causes eye & skin damage. May be fatal if swallowed.**

Avoid breathing spray mist. Wear a respirator of a type approved by the U. S. Bureau of Mines. Do not get on skin, eyes or clothing. Use waterproof gloves and face shield or goggles when handling concentrate.

In case of contact, immediately remove contaminated clothing and flush skin and eyes with plenty of water; for eyes, get medical attention.

See antidote statement and other precautions on the side panel.

STORE IN COOL, DRY PLACE.

DO NOT REUSE CONTAINER. DESTROY WHEN EMPTY.

Apply this product only as specified on this label.

**NOTICE:** The statements made on this label, are believed to be true and accurate, but because of conditions of use which are beyond our control, WILBUR-ELLIS COMPANY does not make, nor does it authorize any agent or representative to make, any warranty, guaranty or representation, express or implied, concerning this material or the use thereof, except in conformity with the statements on the label. Neither WILBUR-ELLIS COMPANY, nor the seller shall be held responsible in any manner for any personal injury or property damage or loss, resulting to the buyer or to the other person from handling, storage or use of this material, not in accordance with the label. The buyer assumes all risk and liability resulting from improper handling, storage or use and accepts and uses this material on these conditions.

ACCEPTED  
OCT 2 1974  
UNDER FEDERAL INSECTICIDE ACT  
REGISTERED SUBJECT TO COMMENTS.

2935-284

**GREENHOUSE, VAPOR TREATMENT OF ROSES; OTHER ORNAMENTAL PLANTS, TOMATOES, CUCUMBERS: Spider Mites, Adult Whiteflies, Aphids, Leafrollers, Mealybugs**—1 fluid ounce per 10,000 cu. ft. when plants are dry. Apply undiluted on heat pipes (or in open pans on hot plates). Apply continuously or to intermittent sections of pipe on each side and on 1 or more of the pipes through center of each range depending upon width. Application to cold pipes should be followed by immediately heating pipes to 160° F. In steam heated houses, close vents for at least 1 hour after pipes are hot. With hot water systems, close house for at least 3 hours. Houses may remain closed overnight following treatment. When application is made to hot pipes, wear goggles and approved respirator. Ventilate house before workers re-enter. Wear respirator when entering treated houses to ventilate. Protect hives of bees in cucumber and other houses by covering with plastic or rubber sheet during treatment and until house is ventilated. Do not apply to tomatoes or cucumbers closer than 1 day before harvest. **Spider Mites** (Resistant and Non-resistant)—Make 3 to 4 treatments at 3 or 4 day intervals. Repeat as necessary. **Adult Whiteflies**—Make 2 applications at 7-day intervals. Repeat as necessary. **Aphids**—Apply when aphids appear. Repeat as necessary. **WARNING**—Avoid overtreatment and direct application to plants as injury may result. White Butterfly and Golden Rapture roses, Pink Champagne Chrysanthemums, Green Wandering Jew, Poinsettias and Dutchman's Pipe may be injured by DIBROM vapor.

**FRUIT FLIES (Drosophila sp.) in and around Food Processing Plants, Loading Docks, Cull Piles and Refuse Areas, Cider Mills**—Use 2 ounces in 2 1/2 gals. water (5 pints to 100 gals.) as a coarse spray to walls, floors, doorways, windows, refuse and cull piles where insects congregate. Apply every 5 to 7 days as necessary. Do not apply to cull fruit or refuse piles to be fed to livestock. Avoid contamination of feeds, foodstuffs and food processing machinery. Do not apply when plants are in operation or when foods are present or exposed. Do not spray surfaces which will come into contact with foods. Cover food containers during spraying.

**ADULT MOSQUITO, GNAT, STABLE FLY (Dog Flies), AND HOUSE FLY CONTROL—RESIDENTIAL AREAS, CROPS LISTED ON LABEL, TIDAL MARSHES, SWAMPS, WOODLAND, LIVESTOCK PASTURES, FEED LOTS & PASTURES INCLUDING DAIRY CATTLE:** Consult your State Fish & Game Agency before applying this product. It is not necessary to avoid farm buildings and dairy barns. Make applications during peak of infestation and repeat as necessary. See crop recommendations for use limitations near harvest. This rate of application will kill shrimp. Do not apply to tidal or marsh waters which are important shrimp producing areas. **AIRCRAFT:** East—Apply 0.8 to 4 fluid ozs. per acre diluted with water. Apply 2 to 8 quarts of diluted spray per acre. West—Apply 1.6 to 4 fl. ozs. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. **MIST 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. technical Naled per acre.

**CORRALS, ADJACENT PASTURES, HOLDING PENS (Dairy and Beef Cattle, Hogs, Sheep, Horses): House Flies, Mosquitoes—Airplane Application**—Use 1.6 to 4 fl. ozs. per acre. Dilute 1 to 2 1/2 pts. in 10 gals. water. Apply 1 gal. diluted spray per acre. Apply over areas with animals present.

**OVER MITES, ROACHES, EARWIGS AND LEAFHOPPERS Outside Dwellings and in Lawns:** Use 1 fl. oz. in 3 gals. water. Apply to turf and to soil surfaces around flowers, shrubs and trees for general pest cleanup.

**GRASSHOPPERS: Rangeland, Field Areas (crops listed on label) and Pastures including dairy pastures; Range Caterpillars on Rangeland & Pastures**—1/2 to 3/4 pt. per acre by air or ground. Young Grasshoppers—1/2 pt. per acre by air or ground. **Armyworms (except rice)**—1 pt. per acre by air or ground. By Air—Use in 1 to 5 gals. water per acre. Apply when hoppers hatch is completed. Repeat as necessary. Animals may be present during treatment. See crop recommendations for use limitations near harvest. Forage plants on pastures or field areas should not be cut for hay to be sold or shipped interstate within 4 days of application.

© DIBROM is Chevron Chemical Company's Reg. T.M. U. S. Pat. No. 2,971,882  
F-974 EPA Est. 2935-CA-1 NET CONTENTS: 1 GALLON

2935-284

10/2/74

10/2

**WILBUR-ELLIS COMPANY**  
FRESNO • LOS ANGELES • GLENDALE, ARIZ. • PORTLAND • SEATTLE

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 ¼ to ½ full with agitator running and maintain agitation until spraying is completed.

**ALFALFA:** Grasshoppers—¼ pt. per acre when crop is not more than 12" high. Aphids, Loopers, Leafhoppers, Lygus Bugs, Alfalfa Webworms, Armyworms—1 pt. per acre. ALFALFA (Seed): Lygus, Mite Suppression (1 application), Mites (2 applications at 7-day intervals), Thrips—½ pt. per acre. Combine with recommended chemicals for residual control. By Air—Use at least 10 gals. water per acre.

**BEANS (Dry or Field), SOYBEANS, LIMA BEANS AND PEAS for Processing:** Alfalfa Looper, Aphids, Spider Mites, Lygus, Leaf Miner; **GREEN BEANS:** Aphids, Spider Mites, Loopers, Nitidulids, Leafhoppers—1 pt. per acre in water to cover. 100 gals. per acre is preferable. Large Loopers, Slink Bugs—1 ½ pts. per acre in water to cover.

**BROCCOLI, CABBAGE, CAULIFLOWER, BRUSSELS SPROUTS, KALE, COLLARDS:** Imported Cabbage-worm, Diamond-Back Caterpillars, Aphids—1 pt. per acre. Looper—2 pts. per acre. May be used 1 day before harvest, except do not apply to kale and collards within 4 days 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 ¾ grown. On larger plants use 1 ½ pts. in 100 to 150 gals. water per acre.

**COTTON:** Lygus—½ to 1 pt. per acre by air or ground. Leaf Perforator, Fleahoppers, Armyworms, Bollworms, Loopers and For 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 ½ pt. per acre by air or ground in control programs with other insecticides registered for use on cotton.

**CUCUMBERS, SUMMER SQUASH:** Cucumber Beetles, Aphids, Spider Mites, Loopers, Thrips, Armyworms—1 pt. per acre in water to cover. Pickleworms, Leaf Miners—1 ½ 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, Blister Beetles, Flea Beetles, Leaf Miners, Whitefly—1 pt. per acre. May be used up to 1 day before harvest.

**WALNUTS:** Aphids—½ to 1 pt. to 100 gals. water. Use up to 10 days of harvest.

**GRAPES:** Drosophila, Leafhoppers—1/2 to 2/3 pt. per 100 gals. water (100 to 230 gals. diluted spray per acre depending on size of vines.) Use only ½ 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.

**HOPS:** Aphids, Spider Mites, Corn Earworm, Hop Looper, Cutworm—1 pt. per acre.

**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 ¾ grown. On larger plants, use 1 ½ 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, Soft Brown Scale Crawlers, Mites, Citrus Cutworms, Leaf Roller (Tortrix)—1 pt. to 100 gals. water. Thrips (Bloom)—½ 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)—¼ 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—½ to ¾ pt. per acre. Apply at first sign of insects. Do not make more than 3 applications. May be used 2 days before 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 5 days of harvest.

**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 signs of insects. Repeat as necessary.

**TOMATOES (Field):** Fruit Flies (Drosophila)—1 pt. in no less than 40 gals. water per acre with ground sprayer, 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.

**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 home.

**First Aid**—If swallowed drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

**Note to Physician:** Naled is a cholinesterase inhibitor. Atropine is antidotal 2-PAM is also antidotal and may be used in conjunction with atropine. 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 FLAME.** Keep children and animals off treated areas. Do not spray on Nectarines, ornamental Cherries, Liquidambar or Chrysanthemums as injury may occur. Do not store diluted spray. Make new dilution for each use. **Wash metal equipment thoroughly after use to avoid corrosion.**

This product is toxic to fish, birds and other wildlife. Birds feeding on treated area may be killed. 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.

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service. Do not permit children to go on grass until spray has completely dried.

