



Accepted

JAN 5 1995

Epa Reg No.  
59637-15

# DIBROM® 8 Emulsive (Naled Insecticide)

Active Ingredient	By Wt.
*Naled .....	58%
Inert Ingredients .....	42%
Light Aromatic Petroleum Distillate 20%	
*1,2-dibromo-2,2-dichloroethyl dimethyl phosphate	

Contains 8 pounds technical naled per gallon equivalent to 7.2 pounds naled.

KEEP OUT OF REACH OF CHILDREN

**DANGER - PELIGRO**

DO NOT TAKE INTERNALLY. DO NOT GET IN EYES. DO NOT GET ON SKIN.  
SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

NET CONTENTS 5 GALLONS



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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS  
DANGER**

**CORROSIVE.** Causes irreversible eye and skin damage. May be fatal if swallowed, inhaled or absorbed through the skin. May cause allergic skin reaction. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist.

Keep children and animals off treated areas. (Does not apply to uses for adult mosquito control or fly control or rangeland pests.)

**STATEMENT OF PRACTICAL TREATMENT: Naled is an organophosphate, cholinesterase inhibitor.**

**IF IN EYES:** Immediately hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention immediately.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

**IF SWALLOWED:** Drink 1 or 2 glasses of water (or milk) and induce vomiting by touching the back of the throat with finger. If possible contact a physician, Poison Control Center or emergency center before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Take person and product container to the nearest medical emergency treatment center.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention immediately.

**Note to Physicians:** Emergency Information - call 1-800-892-0099. Naled is a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (Protopam) is also antidotal and may be used in conjunction with atropine, but should not be used alone.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:** coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils and viton  $\geq$  14 mils, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure, chemical-resistant apron when cleaning equipment, mixing, or loading, and a respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approved number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approved number prefix TC-14G).

**Exception:** When applying to hot pipes in greenhouses or entering vapor-treated greenhouses during application or before ventilation is complete, the protective eyewear must be goggles, unless a full-face respirator is worn.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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### USER SAFETY RECOMMENDATIONS:

Users should:

- \* Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- \* Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- \* Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and wildlife. 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. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow to drift to blooming crops or weeds while bees are actively visiting the treatment area.

### PHYSICAL OR CHEMICAL HAZARDS

**COMBUSTIBLE. KEEP OUT OF REACH OF CHILDREN. DO NOT USE OR STORE near heat, open flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA.** Keep container closed. Clean up spills immediately. Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources, such as pilot lights, welding equipment and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 85°F. **DO NOT** heat this container. Replace cap or bung. Emptied container still contains hazardous or explosive vapor or liquid.

### DIRECTIONS FOR USE

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

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment(PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

#### Entry Restrictions:

**Outdoors and Non-Vapor Treatments In Greenhouses:** Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

**Vapor Treatment In Greenhouses:** Entry by any person - other than a correctly trained and equipped handler who is performing a WPS-defined handling task - is PROHIBITED in the entire enclosed area from the start of application until one of the WPS ventilation criteria has been met. After ventilation is completed, do not enter or allow worker entry into the entire enclosed area during the restricted-entry interval (REI) of 24 hours, except as allowed by the WPS.

#### PPE for Entry During the Restricted Period:

PPE for early entry to treated areas (1) outdoors, (2) in non-vapor treated greenhouses, or (3) in vapor-treated greenhouses after ventilation is complete - that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils and viton ≥ 14 mils, chemical-resistant footwear plus socks, protective eyewear, and chemical-resistant headgear for overhead exposure.

PPE for entry by handlers into vapor-treated greenhouses before WPS ventilation criteria have been met is listed in the "Hazards to Humans and Domestic Animals" section of this labeling.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses

## GENERAL INSTRUCTIONS

Do not apply this product through any type of irrigation system.

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

**GROUND APPLICATION - Vegetables and Field Crops** - 30 to 250 gals. **Cotton** - 3 to 20 gals. **Deciduous Fruit Crops** - 60 to 800 gals. **Citrus** - 100 to 3,000 gals. (On Young Fruit Plantings - Use a minimum of 15 gals. water per acre).

**AIR APPLICATION - Vegetables and 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.

Do not spray on Ornamental Cherries, Liquidamber or Chrysanthemums as injury may occur.

**MIXING DIRECTIONS:** Add to spray tank when 1/4 to 1/2 full with agitator running and maintain agitation until spraying is completed. Make new dilution for each use.

Wash metal equipment thoroughly after use to avoid corrosion.

## RECOMMENDED APPLICATIONS

**ALMONDS ( By Ground Only):** Peach Twig Borer - Apply only once during the dormant or delayed-dormant period. Apply 1 pt. per 100 gals. water in high gallonage spray equipment (300 - 800 gals. water per acre) or 2 to 4 pts. per acre in concentrate ground equipment (40 - 125 gals. water per acre). For intermediate gallonages (125 - 300 gals. water per acre) use 2 to 4 pts. per acre. Combine with dormant oil spray as per instructions on spray oil label. Observe all oil spray precautions.

**BEANS, LIMA BEANS AND PEAS (DRY AND SUCCULENT FORM):** Alfalfa Looper, Aphids, Spider Mites, Lygus, Leafminer, Loopers, Nitidulids, Leafhoppers: For Ground Application - 1 pt. per acre in water to cover. 100 gals. per acre is preferable. For Large Loopers, Stink Bugs - 1 1/2 pts. per acre in water to cover. Aerial Application (California Only) - 1 pt. per acre in minimum of 10 gals. of water per acre. Begin application at first sign of insects. Make only one application per 7 day period. For Dry Beans, do not apply less than 1 day before cutting or pulling plants. For remaining crops, do not apply within 1 day of harvest. Do not feed treated vines or hay.

**BROCCOLI, CABBAGE (Includes tight heading varieties of Chinese Cabbage [Napa]), CAULIFLOWER, BRUSSELS SPROUTS, KALE, COLLARDS (By Air or Ground):** Imported Cabbageworm, Diamondback Caterpillars, Aphids - 1 pt. per acre. Looper - 2 pts. per acre. Do not apply within 1 day of harvest.

**CELERY (By Air or Ground Only):** Aphids, Loopers, Armyworms, Salt Marsh Caterpillars, Leafminers - 1 pt. in 50 to 75 gals. water per acre by ground on plants less than 3/4 grown. On larger plants use 1 1/2 pts. in 100 to 500 gals. water per acre. For aerial applications, apply 1 pt. in a minimum of 10 gals. of water per acre on plants less than 3/4 grown. On larger plants, apply 1 1/2 pts. in a minimum of 10 gals. of water per acre. Do not apply within 1 day of harvest.

**Note:** Leaf Spotting or localized burning can occur under some climatic conditions, such as but not limited to slow drying, high humidity and high temperatures. User should apply this material with caution.

**COTTON (By Air or Ground):** Lygus - 1/2 to 1 pt. per acre. Leaf Perforator, Fleahoppers, Armyworms, Bollworms, Loopers and For Suppression Mites - 1 pt. per acre. Apply at 7 to 10 day intervals while pests persist. FOR HEAVY OR DIFFICULT TO CONTROL POPULATIONS OF LISTED

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**INSECTS** - 1/2 to 3/4 pt. per acre. Use with other insecticides registered for use on cotton. Do not apply after first bolls open. Do not graze livestock in treated fields.

**GRAPES (By Ground Only): Drosophila, Leafhoppers** - 1/2 to 2/3 pt. per 100 gals. water (100 to 130 gals. diluted spray per acre depending on size of vines). Use only 1/2 pt. per 100 gals. water on Muscat varieties. Do not apply within 10 days of harvest.

**Airblast Application (California Only): Prebloom - Overwintering Leafhoppers, Thrips; Postbloom - Drosophila, Leafhoppers, Grape Leaf Skeletonizer** - 1 pt. in a minimum of 20 gals. water per acre. Do not use on Muscat varieties as fruit injury may occur. Do not apply within 10 days of harvest.

**CAUTION: FRESH FRUIT AND CANNERY MARKETS** - Postbloom application can cause fruit russetting.

**ORANGES, LEMONS, GRAPEFRUIT, TANGERINES: (For Ground Application) - Aphids, Brown Scale Crawlers, Mites, Citrus Cutworms, Leafroller (Tortrix), Orange Tortrix, Thrips** - 1 to 2 pts. per acre in 100 to 500 gals. water per acre. Apply when pests first appear. Repeat applications may be necessary. Check with local regulatory agency for additional bee restrictions. Use up to 7 days before harvest.

**(Aerial Application) - Orange Tortrix, Thrips** - 1 to 2 pts. per acre in a minimum of 10 gals. water per acre. Apply when pests first appear. Repeat applications may be necessary. Do not apply more than 4 application per season. Do not apply when bees are active in field. Check with local regulatory agency for additional bee restrictions. Use up to 7 days before harvest.

**SAFFLOWER (CALIFORNIA AND ARIZONA ONLY - By Air or Ground): Aphids, Thrips, Lygus** - 3/4 pt. per acre. Apply in 3 to 10 gals. water by air. Do not apply within 30 days of harvest.

**STRAWBERRIES (By Air or Ground): Leafroller, Spider Mites, Omnivorous Leaflet, Spittlebugs, Aphids, Thrips, Lygus** - 1 pt. per acre. May be used 1 day before harvest.

**SUGAR BEETS (By Air or Ground): Spider Mites, Leafhoppers** - 1 pt. per acre. By air use in 1 to 5 gals. water per acre. Do not apply within 2 days of harvest.

**WALNUTS (By Air or Ground): Aphids** - 1/2 to 1 pt. in 100 gals. water. **Aerial Application (California Only) - Aphids, Red-Humped Caterpillar** - Apply 1 1/2 to 2 pts. per acre in 10 to 20 gals. of water. Do not apply within 10 days of harvest. Do not graze livestock in treated orchards.

**FOREST AND SHADE TREES (By Ground Only): CONIFERS (Arborvitae, Douglas Fir, Fir, Hemlock, Juniper, Pine, Spruce): Suppression of Two-Spot and Red Spider Mites, Aphids, Spittlebugs, Zimmerman Moth, 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, Leafminers, Thrips, Elm Leaf Beetles, California Oakworms (California only), Spring and Fall Cankerworms, Fall Webworm, Oak Webworm, and Tussock Moths** - 1 pt in 100 gals. water. Use when infestation is evident, repeat as necessary.

**GREENHOUSE, VAPOR TREATMENT OF ROSES, OTHER ORNAMENTAL PLANTS: Spider Mites, Adult Whiteflies, Aphids, Leafrollers, Mealybugs** - 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 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 houses by covering with plastic or rubber sheet during treatment and until house is ventilated. **Spider Mites (Resistant and Non-resistant)** - Make 3 to 4 treatments at 3 or 4 day intervals. Repeat as necessary. Adult

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**Whiteflies** - Make 2 applications at 7 day intervals. Repeat as necessary. **Aphids** - Apply when aphids appear. Repeat as necessary.

**Note:** 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.

**IN AND AROUND FOOD PROCESSING PLANTS, LOADING DOCKS, CULL PILES, REFUSE AREAS, CIDER MILLS (By Ground Only): Fruit Flies (Drosophila sp.)** - Use 2 oz. to 2 1/2 gals. water (5 pts. 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 use in edible product areas of food processing plants and mills where food is prepared or processed commercially. 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.

**RESIDENTIAL AREAS, CROPS LISTED ON LABEL, SWAMPS AND WOODLAND (By Air or Ground): Gnat, Stable Fly (Dog Flies), House Flies** - Consult your State Fish and Game Agency before applying this product. It is not necessary to avoid farm buildings. 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 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 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.

**RESIDENTIAL AREAS, CROPS LISTED ON LABELS, SWAMPS, WOODLAND, AND LIVESTOCK PASTURES, INCLUDING DAIRY CATTLE (By Air or Ground): Adult Mosquitoes** - Consult your State Fish and Game Agency before applying this product. Make applications during peak of infestation and repeat as necessary. See crop recommendation for use limitations near harvest. 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. 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 1.6 fl. oz. per acre diluted with water. 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. 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 lb. technical naled per acre. Do not make more than one application every 10 days to pasture or other areas where lactating dairy animals are being held.

**FOR REDUCTION OF LIVESTOCK PESTS IN CORRALS, HOLDING PENS, FEEDLOTS AND RANGELANDS CONTAINING DAIRY AND BEEF CATTLE, HOGS, SHEEP, HORSES (By Air or Ground): Gnat, Stable Fly (Dog Fly), House Fly, Mosquito; Horn Fly (Central and North Central U.S.)** - **AERIAL APPLICATION:** Apply 4 fl. oz. diluted with 8 fl. oz. of water (total of 12 fl. oz.) per acre (0.25 lb. technical naled per acre). **GROUND APPLICATION:** Use 5 pts. per 100 gals. water. Apply with a mist blower or similar equipment as a space treatment. Calibrate equipment (rate of travel and output) to apply 0.25 lb. technical naled per acre (approximately 5 gals. of diluted spray).

**OUTSIDE DWELLINGS AND IN LAWNS: Clover Mites, Roaches, Earwigs, Leafhoppers** - Use 1 fl. oz. in 3 gals. water. Apply to turf and to soil surfaces around flowers, shrubs and trees for general pest cleanup.

**RANGELAND (By Air or Ground): Grasshoppers, Range Caterpillars** - 1/2 to 3/4 pt. per acre. **Young Grasshoppers** - 1/2 pt. per acre. **Armyworms** - 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 may be present during treatment. Do not graze lactating dairy animals on treated areas.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

## **STORAGE AND DISPOSAL**

### **PROHIBITIONS**

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

Open dumping is prohibited.

### **STORAGE**

Store in cool, dry place.

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.

Do not store diluted spray.

For help with any spill, leak, fire or exposure involving this material, call day or night 1-800-892-0099, or Chemtrec 1-800-424-9300.

### **PESTICIDE DISPOSAL**

This product is acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### **CONTAINER DISPOSAL**

Triple rinse (or equivalent). Do not reuse container. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## **IMPORTANT INFORMATION. READ BEFORE USING PRODUCT.**

**LIMITED WARRANTY:** 1. Valent U.S.A. Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for use under average conditions when used strictly in accordance with the directions on the labeling. Valent does not make nor authorizes any agent or representative to make, any other warranty, guarantee or representation, express or implied, concerning this product. Specifically, **NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE IS MADE.**

2. Critical and unforeseeable factors beyond Valent's control prevent it from eliminating all risks in connection with the use of this product. Such risks include, but are not limited to, damage to plants and crops to which product is applied, lack of complete control over the handling and application of this product, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit under average conditions for the uses stated on the labeling and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Valent under 1 above) resulting from handling, storage, and use of the product.

3. Precautions stated on the labeling should be followed to avoid hazardous exposure to the product.

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