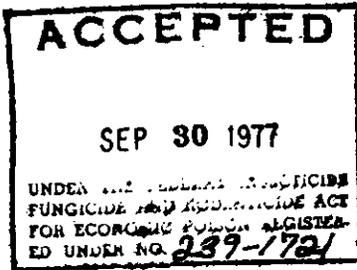


# DIBROM® 14 Concentrate



# ORTHO

239-1721  
9-30-77  
1871

## (INSECTICIDE)

Active Ingredient By Wt.  
 \*Naled 85%  
 Inert Ingredients 15%  
 \*1,2-dibromo-2,2-dichloroethyl dimethyl phosphate  
 Contains 14 pounds technical naled per gallon equivalent  
 to 12.6 pounds naled.

U.S. Pat. No. 2,971, 882

## DANGER: KEEP OUT OF REACH OF CHILDREN.

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.

DIBROM 14 Concentrate is a special formulation for use undiluted or diluted in diesel oil to be applied for the control of mosquitoes, house flies and certain other nuisance insects. This product cannot be diluted with water. If crystallization occurs, warm to 70° until crystals disappear.

**SPECIAL MIXING DIRECTIONS:** The use of DIBROM 14 Concentrate and some grades of diesel fuel may result in precipitates which cause nozzle clogging and operational difficulties. To prevent this, DIBROM 14 Concentrate should be used with ORTHO Additive. See ORTHO Additive label for recommended rates.

A technical bulletin, Operating Manual for Ultra Low Volume Application of DIBROM 14 Concentrate, is available for detailed information on equipment for ULV applications.

**DIRECTIONS**  
**ADULT MOSQUITO CONTROL** in Residential Areas, Municipalities, Tidal Marshes, Swamps, Woodlands, Livestock Pastures, Feed Lots and Pastures including Dairy Cattle. It is not necessary to avoid farm buildings, dairy barns, feed or forage areas. Treat shrubbery and vegetation where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, swamps, residential areas, municipalities, woodlands, pastures, farm buildings and feed lots may be treated.

## NET CONTENTS LIQUID

**Chevron Chemical Company**  
 Ortho Division/San Francisco CA 94119 Richmond CA 94804  
 Product 3290 Made in U.S.A.  
 Form 6518-S2 EPA Est. 239-CA-1  
 EPA Reg. No. 239-1721-AA

**ULTRA LOW VOLUME AIRCRAFT APPLICATION:** Apply ½ to 1 fl. oz. of undiluted product per acre. Use the 1 oz. rate where heavy vegetation exists, i.e., woodlands, etc. Aircraft should be equipped with a noncorrosive spray system. Since large particles may damage certain automobile finishes, nozzles should be used that will deliver 30-80 micron size droplets. This can be achieved through atomizing devices or by positioning nozzles 45° forward into the relative air stream and operating the aircraft only at speeds greater than 80 mph. Large droplets may cause spotting of certain automobile paint finishes. Spray during periods when wind is 10 mph or less and when thermal activity is low.

**AIRCRAFT APPLICATION:** Dilute 50 to 100 oz. (1.6 to 3.1 qts.) DIBROM 14 Concentrate in 100 gals. No. 2 Fuel Oil or diesel oil. Apply at the rate of 1 gal. diluted material per acre. This is equivalent to 0.05 to .1 lb. actual DIBROM per acre.

**THERMAL FOG APPLICATION:** Dilute 3.1 qts. (100 fl. oz.) to 99 gals. No. 2 Fuel Oil or diesel oil or 10 oz. per 10 gals. oil. Apply either at the rate of 40 gals. per hour at 5 miles per hour vehicle speed, 80 gals./hour (10 mph), or 120 gals./hour (15 mph), applying swath 300 to 400 feet wide.

**ULTRA LOW VOLUME NON-THERMAL GROUND APPLICATION:**



**DO NOT TAKE INTERNALLY  
 DO NOT GET IN EYES  
 DO NOT GET ON SKIN**

**DANGER:** Concentrate causes skin and eye damage. Do not get in eyes, on skin or on clothing. May be fatal if swallowed. May be fatal if absorbed through skin. Avoid breathing spray mist. Use waterproof gloves and face shield or goggles when handling concentrate. In case of eye contact, immediately flush eyes with plenty of water and see a physician. For skin, immediately remove contaminated clothing and flush affected areas with plenty of water.

**Note to Physicians:** Emergency Information - cc. II (415) 233-3737. 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.

**DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME.** Avoid contamination of feed, foodstuffs and drinking water. Concentrate may corrode metal spray or mixing equipment. Flush all equipment thoroughly with aromatic solvent after use.

This product is toxic to fish, birds and other wildlife. Keep out of lakes, streams and ponds. Direct application to water is prohibited. Do not apply when weather conditions favor drift from areas treated. Do not contaminate any body of 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.

Dilute 2 qts. (64 fl. oz.) of DIBROM 14 Concentrate in soybean oil or HAN to make 5 gals. of dilute solution. Apply through ground ULV equipment calibrated to deliver a droplet size range of 11 to 20 microns. Optimum mass median diameter is 15 microns. Excessive pressure and over atomization result in poor mosquito control. Apply at the rate of 3 to 6 fl. oz. per minute at a vehicle speed of 5 mph; applying a swath 300 ft. wide; at 10 mph, deliver 6 to 12 fl. oz. per minute; and at 15 mph deliver 9 to 18 fl. oz. per minute. This is equivalent to 0.01 to 0.02 lb. actual DIBROM per acre. Use the high rate and slower speed to penetrate dense vegetation.

To determine droplet size, treat glass microscope slides with a thin film of General Electric SC-87 Dri Film (a silicone aerosol product). This is accomplished by waving slides rapidly, 3 to 6 feet in front of aerosol discharge. Place prepared slides in a spray deposit area far enough away from discharge to avoid saturation. Using an ocular micrometer, at 450x magnification, measure a reasonable sample (about 100) of droplet diameters. Multiply droplet diameter by a 0.42 spread factor to determine original droplet size. Proceed to obtain droplet size range and median diameter.

### HOUSE FLIES, GNATS, CERTAIN OTHER NUISANCE INSECTS—SMALL FLYING MOTHS, CRANE FLIES, MIDGES, ADULT STABLE FLIES

(Dog Flies) in Residential Areas, Municipalities, Woodlands, Livestock Pastures, Feed Lots and Pastures including dairy cattle. It is not necessary to avoid farm buildings, dairy barns, feed or forage areas. **THERMAL FOG APPLICATION:** Dilute 1 gal. to 99 gals. of No. 2 Fuel Oil or diesel oil or 13 oz. per 10 gals. oil. Apply at rate of 40 gals. per hour output at an average vehicle speed of 5 miles per hour, applying swath 300 to 400 feet wide. **AIRCRAFT APPLICATION:** Dilute 100 to 230 fl. oz. (¼ to 1½ gals.) DIBROM 14 Concentrate in 100 gals. No. 2 Fuel Oil or diesel oil. **Smaller insects—Gnats and Midges:** ¾ to 1 gal. **House Flies, Flying Moths:** 1 to 1½ gals. Apply 1 gal. diluted material per acre. This is equivalent to 0.1 to 0.2 lb. actual DIBROM per acre.

**CONTAINER DISPOSAL:** Rinse with aromatic solvent when empty and offer for recycling, reconditioning or disposal in approved land fill or bury in a safe place.

**NOTE:** Rinstate that cannot be used or chemically reprocessed should be disposed of according to procedures approved by Federal, State or local Disposal Authorities.

**CONDITIONS OF SALE:** 1. Chevron Chemical Company (Chevron) warrants that this material conforms to the chemical description on the label and is reasonably fit for use as directed hereon. Chevron neither makes, nor authorizes any agent or representative to make, any other warranty of FITNESS or of MERCHANTABILITY, guarantee or representation, express or implied, concerning this material.

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