

PM 04

59639-19

12/1/97

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REDLINE COPY



DIBROM[®] Concentrate (INSECTICIDE)

Active Ingredient	By Wt.	
*Naled	87.4%	
Inert Ingredients		12.6%
*1,2-dibromo-2,2-dichloroethyl dimethyl phosphate		

ACCEPTED
 DEC 1 1997
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 59639-19

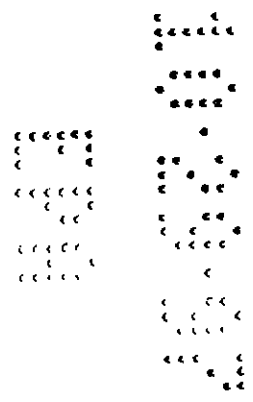
KEEP OUT OF REACH OF CHILDREN

DANGER

- DO NOT TAKE INTERNALLY.
- DO NOT GET IN EYES.
- DO NOT GET ON SKIN.

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS 1 GALLON



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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.

When handling this material 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 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).

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE may be reduced or modified as specified in the WPS; impervious protective clothing including gloves, apron, overshoes, chemical goggles and face shield. Wear a MSHA/NIOSH approved pesticide respirator.

Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Immediately hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention immediately.

If on skin: Wash with plenty of soap and water. Get medical attention immediately.

If swallowed: Drink a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Contact a physician, Poison Control Center, or emergency center. Do not induce vomiting. 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 inhaled: Remove victim to fresh air. If not breathing, give artificial respiration and 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. Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and wildlife. Do not apply directly to water except when used over water as labeled for adult mosquito, blackfly, or housefly control. For terrestrial uses, do not apply directly to water, or to intertidal 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 washwaters.

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

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.

**DISCLAIMER, CONDITIONS OF SALE,
LIMITED WARRANTY
AND LIMITATION OF LIABILITY**

IMPORTANT: Read the entire Label including this Disclaimer, Limited Warranty and Limitation of Liability before using this product. If the terms are not acceptable, return the unopened product within 15 days of purchase.

RISKS OF USING THIS PRODUCT

It is impossible to eliminate all risks associated with the use of this product. Such risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, moisture conditions, irrigation practices, presence of other materials, cultural practices or the manner of use or application, all of which are factors beyond the control of Valent. All such risks shall be assumed by the Buyer.

Valent shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on the label. User assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY

Valent warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product described above.

DISCLAIMER OF ALL OTHER WARRANTIES

VALENT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

In no event shall Valent or Seller be liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THIS PRODUCT.

NO AMENDMENTS

Valent and Seller offer this product, and Buyer and User accept it, subject to the foregoing Disclaimer, Conditions of Sale, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

PROMPT NOTICE OF CLAIM

Valent must have prompt notice as soon as Buyer or User has reason to believe they may have a claim (not to exceed twenty-one days from date of application) so that an immediate inspection of the affected property and growing crops can be made. Unless Buyer and Users shall promptly notify Valent of any claims, they shall be barred from obtaining any remedy.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

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DIBROM Concentrate is a special formulation for use undiluted or diluted in diesel oil to be applied for the control of mosquitoes, houseflies and certain other nuisance insects. **This product cannot be diluted with water.**

DIBROM CONCENTRATE IS FOR USE ONLY BY TRAINED PERSONNEL IN COMMERCIAL PEST CONTROL AND PUBLIC HEALTH OR PEST ABATEMENT PROGRAMS.

OPERATIONAL USE INSTRUCTIONS: All equipment used in the mixing or application (by ground or air) of DIBROM Concentrate should be constructed of corrosion-resistant materials. Stainless steel, bronze, brass, fiberglass, polypropylene and rigid PVC have all proven fairly resistant to the effects of DIBROM Concentrate. Use of Teflon or Viton seals is recommended. Avoid use of steel or galvanized steel. Even when these materials are used to construct a spray system, a careful maintenance program involving flushing, cleansing and constant inspection must be followed.

Strain DIBROM Concentrate as it is being loaded. Use a 100 mesh stainless steel or nylon screen. If product crystallization occurs, warm at 70°F until crystals disappear. The use of DIBROM Concentrate and some grades of diesel fuel may result in precipitates which cause nozzle clogging and operational difficulties.

Flushing the system following application is essential. Use of heavy aromatic naphtha (HAN), "Jet A" aircraft fuel, Aromatic 150, Aromatic 200, and Aromatic 200ND have been reported as successful. Isopropyl or methyl alcohol are not recommended for flushing due to their low flash point.

DIBROM Concentrate must be applied using the correct droplet size. Over-atomization produces finer particles which either evaporate or dissipate too quickly and become unavailable for mosquito contact. The spread factor for DIBROM Concentrate on silicone or Teflon-coated slides is 0.54 and 0.7, respectively. If applied incorrectly, DIBROM Concentrate will spot certain automobile paint finishes. Careful attention to recommendations concerning nozzles, nozzle positioning, air speed and droplet size is essential to avoid paint spotting.

A technical bulletin, *DIBROM Concentrate for use in Mosquito Control Programs*, contains detailed information on equipment for ULV applications.

Aerial Application: Aerial application must be made with closed cockpit aircraft. Spray during periods when wind is 10 mph or less and when thermal activity is low.

Nozzles must be positioned 45° to 90° (perpendicular to air flow) into the wind. This positioning results in the maximum wind shear across the face of the nozzles and creates the smallest particles. Air speed should be in excess of 100 mph to assure enough force to create maximum spray atomization. Aircraft flying at slower speeds should be equipped with atomizing nozzles. Use spray nozzles that will produce 30 to 80 micron size droplets. No more than 5% of the droplets should be larger than 80 microns.

Ground Application: Maximum effect is produced by particles 11-20 microns in size. Mass median diameter of the droplets produced should not exceed 15 microns and no droplet should be larger than 50 microns. Excessive pressure and over atomization result in poor mosquito control.

DIRECTIONS

ADULT MOSQUITO CONTROL in Residential Areas, Municipalities, Tidal Marshes, Swamps, Woodlands, Agricultural Areas (when applied in wide-area public pest control programs sponsored by governmental entities), Livestock Pastures, Feedlots and Pastures including Dairy Cattle: It is not necessary to avoid farm buildings, dairy barns, feed or forage areas. Not for use on trees being grown for sale or other commercial use, or for commercial seed production, or for the production of

timber or wood products, or for research purposes, (unless applied in wide-area public pest control programs sponsored by governmental entities). Use in agricultural areas should be in a manner as to ensure that residues do not exceed the established federal tolerance for the active ingredient in or on raw agricultural commodities resulting from use for area pest control. 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.

ULTRA LOW VOLUME (ULV) AIRCRAFT AERIAL APPLICATION: Apply 1/2 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 corrosion resistant spray system. Large droplets may damage certain automobile finishes. Flat fan nozzles should be positioned 45° forward and only on aircraft flying 100 mph or faster.~~

AIRPLANE DILUTE AERIAL APPLICATION: Dilute 50 to 100 oz. (1.6 to 3.1 qts.) DIBROM 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 0.10 lb. actual DIBROM per acre or dilute 1.0 fl. oz. DIBROM Concentrate with HAN (Heavy Aromatic Naphtha) to make 16 fl. oz. Apply at the rate of 16 fl. oz. of dilute mixture per acre. This is equivalent to 0.10 lb. actual DIBROM per acre.

ULTRA LOW VOLUME (ULV) GROUND ULV CONCENTRATE APPLICATION: Apply DIBROM Concentrate undiluted at the rate of 0.6 fl. oz. per minute at 5 mph; 1.2 fl. oz. per minute at 10 mph; and 1.8 fl. oz. per minute at 15 mph, applying a 300 ft. swath. These flow rates are equivalent to 0.02 lb. actual DIBROM per acre.

CAUTION: - SPECIAL INSTRUCTION: This application can be made only under the following conditions:

1. Application can be made only by appropriately licensed and certified personnel with public agencies or private contractors operating in conjunction with or under contract with such government agencies.
2. Application in calm air conditions is to be avoided.
3. Application is not to be made in the immediate vicinity of pedestrians.
4. Vehicles used to apply DIBROM must be air conditioned or equipped with automatic speed control flow device.

ULTRA LOW VOLUME NON-THERMAL DILUTE GROUND APPLICATION: Dilute 2 qts. (64 fl.oz.) of DIBROM Concentrate in soybean oil or HAN to make 5 gals. of dilute solution. 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.

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 mph vehicle speed, 80 gals./hour (10 mph), or 120 gals./hour (15 mph), applying swath 300 to 400 feet wide.

BLACKFLIES, HOUSEFLIES, 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. Not for use on trees being grown for sale or other commercial use, or for commercial seed production, or for the production of timber or wood products, or for research purposes, (unless applied as wide-area public pest control programs sponsored by governmental entities).

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THERMAL FOG GROUND APPLICATION: Dilute 1 gal. to 99 gals. of No. 2 Fuel Oil or diesel oil or 13 oz. per 10 gals. oil. Apply at a rate of 40 gals. per hour output at an average vehicle speed of 5 mph, applying swath 300 to 400 feet wide.

AIRPLANE THERMAL FOG AERIAL APPLICATION: Dilute 100 to 230 fl. oz. (3/4 to 1 3/4 gals.) DIBROM Concentrate in 100 gals. No. 2 Fuel Oil or diesel oil. **Smaller insects - Gnats and Midges:** 3/4 to 1 gal. **Houseflies, Flying Moths:** 1 to 1 3/4 gals. Apply 1 gal. diluted material per acre. This is equivalent to 0.1 to 0.2 lb. actual DIBROM per acre. **Suppression of Blackflies:** Dilute 1.5 fl. oz. DIBROM Concentrate with 14.5 fl. oz. HAN. Apply at the rate of 16 fl. oz. diluted mix per acre. This is equivalent to 0.16 lb. actual DIBROM per acre.

HORN FLIES (Range Cattle): AIRPLANE APPLICATION: Apply 2 to 4 fl. oz. DIBROM Concentrate undiluted per acre. Use higher rate for heavier fly populations. This is equivalent to 0.2 - 0.4 lb. actual DIBROM per acre.

SUPPRESSION OF DEER FLIES

AIRPLANE AERIAL APPLICATION: Apply 1 to 2 fl. oz. DIBROM Concentrate undiluted per acre. Use higher rate in denser vegetation. This is equivalent to 0.1 to 0.2 lb. actual DIBROM per acre.

~~Note: Concentrate may corrode metal spray or mixing equipment. Flush all equipment thoroughly with aromatic solvent after use.~~

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

Keep pesticides in original container. Do not put concentrate or dilute into food or drink containers.

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

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. Dispose of in a sanitary landfill or by other procedures allowed by State and local authorities.

OR (the following statement is to be used on returnable containers)

CONTAINER REUSE

RETURNABLE CONTAINER: This container is a dedicated, single-product returnable container. Refill this container only with pesticide. Return empty container to seller at location designated by seller as a collection point. Do not break seals, add anything to container or open container after use. Do not rinse or contaminate empty container. Do not dispose of empty container or use it for any other purposes.

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 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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Manufactured for:

Valent U.S.A. Corporation

Walnut Creek, CA 94596-8025

Made in U.S.A.

Form R10200D0.0 970425

EPA Reg. No. 59639-19

EPA Est. 5481-CA-1

