

239-1721

05/22/89

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

22 MAY 1989

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244,955

Coviron Chemical Company
c/o Valent U.S.A. Corporation
P.O. Box 8025
Walnut Creek, CA 94596-0025

Gentlemen:

Subject: Dibrom 14 Concentrate
EPA Registration No. 239-1721
Your Application Dated April 27, 1989

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable subject to the comment listed below.

- Include the text marked "Copy A" and "Copy B."

Sincerely yours,

William H. Miller

William H. Miller
Product Manager (16)
Insecticide-Rodenticide Branch
Registration Division (H7505C)

56450:I:A-4:Peacock:CBI-18:KENCO:05/16/89:06/28/89:CL:vo:jh

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

DIBROM 14 Concentrate
EPA REG NO. 239-1721
Submitted: April 27, 1989

COPY A

Do not apply directly to water except when used over water as labeled for adult mosquito, blackfly or housefly control.

COPY B

Do not contaminate water when disposing of equipment washwater.

CONFIDENTIAL
PROPERTY OF
SHEVRON CHEMICAL COMPANY
UNTIL ACCEPTED BY EPA

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ORTHO

DIBROM[®]

14 Concentrate

ACCEPTED
MAY 22 1989
Rodenticide Act. is exempt for the
purpose of registration under
EPA Reg. No. 239-1721

(INSECTICIDE)

Active Ingredient
* Naled

Inert Ingredients

By Wt
85%
15%

* 1,2-dibromo-2,2-dichloroethyl dimethyl phosphate
Contains 14 pounds technical naled per gallon equivalent to 12.6 pounds naled

KEEP OUT OF REACH OF CHILDREN
DANGER
DO NOT TAKE INTERNALLY. DO NOT GET IN EYES. DO NOT GET ON SKIN.
SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS 1 GALLON (3.785 LITRES)

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. When handling this material wear impervious protective clothing including gloves, apron, overshoes, chemical goggles and face shield. Do not breathe vapor or spray mist. 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, 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 and 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 (415) 233-3737. 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and wildlife. **Do not apply directly to water or wetlands, swamps, bays, marshes and ponds.** Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. **Do not contaminate water by cleaning of equipment or disposal of wastes.**

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.

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.

DIBROM 14 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.** If crystallization occurs, warm at 70° until crystals disappear.

SPECIAL MIXING DIRECTIONS: (Except CA) 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.

ULTRA LOW VOLUME AIRCRAFT 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. Aircraft flying at slower speeds should be equipped with atomizing nozzles. No more than 5% of the droplets should be larger than 80 microns. 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 or dilute 1.0 fl. oz. DIBROM 14 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.

THERMAL FOG APPLICATION: Dilute 3.1 qts. (100 fl. oz.) to 99 gals. No. 2 Fuel Oil or diesel oil or 30 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.

ULTRA LOW VOLUME NON-THERMAL GROUND APPLICATION: Dilute 2 qts. (64 fl. oz.) of DIBROM 14 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. 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. 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.

GROUND ULV CONCENTRATE APPLICATION: Apply DIBROM 14 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 INSTRUCTIONS: 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 must be air conditioned, and equipped with automatic speed control flow device.

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. **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 a rate of 40 gals. per hour output at an average vehicle speed of 5 mph, applying swath 300 to 400 feet wide. **AIRCRAFT APPLICATION:** Dilute 100 to 230 fl. oz. (3.4 to 1-3.4 gals.) DIBROM 14 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 14 Concentrate with 14.5 fl. oz. to 0.16 lb. actual DIBROM per acre. **HORN FLIES (Range Cattle): AIRPLANE APPLICATION:** Use higher rate for heavier fly populations. **SUPPRESSION OF DEER FLIES: AIRPLANE APPLICATION:** Use higher rate in denser vegetation. **Note:** Concentrate may corrode metal spray or vent after use.

Do not apply under conditions involving possible crops thereof rendered unfit for sale, use or consumption.

STORAGE

PROHIBITIONS

Do not contaminate water, food or feed by storage or application. Open dumping is prohibited.

STORAGE

Keep pesticide in original container. Do not put concentrate or dilute into food or feed. For help with any spill, leak, fire or exposure, call 1-800-4-A-CHLOR.

PESTICIDE DISPOSAL

This product is acutely hazardous. Improper disposal is a violation of Federal Law. If these wastes cannot be disposed of by the user, contact your local Pesticide or Environmental Control Agency, or the nearest State or Federal Office for guidance.

CONTAINER DISPOSAL

Triple rinse (or equivalent). Do not reuse container by State and local authorities.

CONDITIONS OF SALE: 1. Chevron Chemical Company description on the label and is reasonably fit for use as an agent or representative to make, any other warranty, express or implied, concerning this material. 2. Critical and unforeseeable factors beyond the control of the user of chemicals. Such risks include, but are not limited to, applied, lack of complete control, and damage to property. The product is reasonably fit for the uses stated on the label. User acknowledges and assumes all risks and liability for use, storage, and use of this material.

Chevron Chemical Company

Ortho Agricultural Chemicals Division
San Francisco CA 94120-7144
R Form 6517-V2 Product 3290 Made in U.S.A.
EPA Reg. No. 239-1721-AA EPA Est. 239-CA-0001