

# Dibrom Concentrate

Registrant: Amvac Chemical Corporation

## GENERAL

<b>EPA Registration Number:</b>	5481-480	<b>Signal Word:</b>	DANGER
<b>CA Registration Number:</b>	5481-480-AA		
<b>Active Ingredient:</b>	87.4 - Naled	<b>Application Methods:</b>	Air, Ground
<b>Label Version:</b>	11119-20210304	<b>Mode of Action:</b>	IRAC 1B
<b>Physical State:</b>	Liquid (15.28 lb / ga)	<b>Toxic To:</b>	Aquatic Invertebrates, Bees, Fish, Wildlife
<b>Product Type:</b>	Insecticide	<b>Rainfastness:</b>	
<b>Formulation Type:</b>	Emulsifiable Concentrate OR Emulsion Concentrate		

## ADDITIONAL INFORMATION

<b>Federally Restricted:</b>	Yes		
<b>Organic Certifications:</b>	None	<b>Other Certifications:</b>	None
<b>Posting Required:</b>	No	<b>Closed Mixing System Required:</b>	All applications in All States/Provinces: <b>Closed mixing required</b>
<b>Oral Notification Required:</b>	No	<b>Avoid Grazing:</b>	Yes

## CALIFORNIA

<b>Registration #:</b>	5481-480-AA	<b>CA Restricted:</b>	No
<b>CA NOI Required:</b>	No		

**REGISTERED FOR USE IN****PACKAGE TYPES**

5 GA Package(s)

**\*\*Specific Notices will not be shown until a pest is selected.**

**SAFETY**

**PPE Information:** PERSONAL PROTECTIVE EQUIPMENT (PPE) Some materials that are chemical-resistant to this product are listed in the following paragraphs: Mixers, loaders, and other handlers must wear: - Protective eye wear (goggles, face shield, or safety glasses) - Long-sleeved shirt and long pants - Socks plus shoes - Chemical-resistant gloves (such as barrier laminate, butyl rubber >= 14 mils, nitrile rubber >= 14 mils, or Viton(R) >= 14 mils), and apron when mixing or loading. See engineering controls for additional requirements. In addition, mixers and loaders must: - Have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown, the PPE specified below for handlers engaged in those activities for which use of an engineering control is not possible. Mixers, loaders, applicators(except aerial applicators in a cab/cockpit) and other handlers engaged in those handler activities for which use of an engineering control is not possible, such as cleaning up a spill or leak and cleaning or repairing contaminated equipment, must wear: - Protective eye wear (goggles, face shield, or safety glasses) - Coveralls over long-sleeved shirt and long pants - Chemical-resistant gloves (such as barrier laminate, butyl rubber >= 14 mils, nitrile rubber >= 14 mils, or Viton >=14 mils) - Chemical-resistant footwear plus socks - Chemical-resistant apron if exposed to the concentrate - Chemical-resistant headgear for overhead exposure - Wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and combination N1, R, or P filters; OR a NIOSH-approved gas mask with OV canisters; OR a NIOSH-approved powered air purifying respirator with OV cartridges and combination HE filters. Please note that N designation for respirator filters does not apply when application is made with oils.

**Re-Entry PPE Information:** No Information Available

**Transport Information:** Transport information DOT UN number UN2922 UN proper shipping name Corrosive liquids, toxic, n.o.s. (Naled RQ = 10 lbs), MARINE POLLUTANT Class 8 Transport hazard class(es) Subsidiary risk 6.1 Label(s) 8, 6.1 Packing group III Marine pollutant Yes Environmental hazards Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Special provisions IB3, T7, TP1, TP28 Packaging exceptions 154 Packaging non bulk 203 Packaging bulk 241 IATA UN number UN2922 UN proper shipping name Corrosive liquid, toxic, n.o.s. (Naled) Class 8 Transport hazard class(es) Subsidiary risk 6.1 Packing group III Environmental hazards No ERG Code 8P Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Passenger and cargo Allowed with restrictions. aircraft Other information Cargo aircraft only Allowed with restrictions. Read safety instructions, SDS and emergency procedures before handling. IMDG UN number UN2922 UN proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S. (Naled), MARINE POLLUTANT Class 8 Transport hazard class(es) Subsidiary risk 6.1 Packing group III Marine pollutant Yes Environmental hazards EmS F-A, S-B Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not established. General information: DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

**Response Number:** 800-424-9300

**Medical Number:** 888-681-4261

**SDS Hazard ID Signal Word:** Danger

## GENERAL NOTICE 1

**RESTRICTED USE PESTICIDE DUE TO EYE AND SKIN CORROSIVITY HAZARD** For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. **FOR USE ONLY BY FEDERAL, STATE, TRIBAL, OR LOCAL GOVERNMENT OFFICIALS RESPONSIBLE FOR PUBLIC HEALTH OR VECTOR CONTROL, OR BY PERSONS CERTIFIED IN THE APPROPRIATE CATEGORY OR OTHERWISE AUTHORIZED BY THE STATE OR TRIBAL LEAD PESTICIDE REGULATORY AGENCY TO PERFORM ADULT MOSQUITO CONTROL APPLICATIONS, OR BY PERSONS UNDER THEIR DIRECT SUPERVISION. NOT FOR USE IN AND AROUND THE HOME BY HOMEOWNERS OR PROFESSIONAL APPLICATORS. KEEP OUT OF REACH OF CHILDREN DANGER / PELIGRO** If you do not understand the label, find someone to explain it to you in detail. **FIRST AID** Organophosphate If in eyes: - Hold eye open and rinse slowly and gently from the side of the eye with water for 15-20 minutes. - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. - Call a poison control center or doctor for treatment advice. If on skin or clothing: - Take off contaminated clothing. - Rinse skin immediately with plenty of water for 15-20 minutes. - Call a poison control center or doctor for treatment advice. If swallowed: - Immediately call a poison control center or doctor. - Do not induce vomiting unless told to do so by a poison control center or doctor. - Do not give any liquid to the person. - Do not give anything by mouth to an unconscious person. If inhaled: - Move person to fresh air. - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth unless individual is contaminated with product. - Call a poison control center or doctor for further treatment advice. **EMERGENCY INFORMATION** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:** For Medical Emergencies phone: 1-888-681-4261 For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC(R) 1-800-424-9300 For Non-emergency General Information on this Product phone: AMVAC(R) 1-888-462-6822 **NOTE TO PHYSICIAN** Naled is an organophosphate cholinesterase inhibitor. Contains petroleum distillates. 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. May pose an aspiration pneumonia hazard.

## GENERAL NOTICE 2

**PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER. CORROSIVE.** Causes irreversible eye and skin damage. Causes skin burns. May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. **USER SAFETY REQUIREMENTS** - Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. - Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. **ENGINEERING CONTROLS** - Mixers and loaders supporting aerial applications must use a closed system designed by the manufacturer to enclose the pesticide to prevent it from contacting handlers or other people AND the system must be functioning properly and must be used and maintained in accordance with the manufacturer's written operating instructions. - The system must be capable of removing the pesticide from the shipping container and transferring it into application equipment. - At any disconnect point, the system must be equipped with a dry disconnect or dry couple shut-off device that is warranted by the manufacturer to minimize drippage to not more than 2 mL per disconnect point. In addition, mixers and loaders must: - Wear the personal protective equipment required in the PPE section of this labeling for mixer/loaders. - Be provided and have immediately available for use in case of an emergency, such as a broken package or spill, the PPE specified in the PPE section of this labeling for handlers engaged in those activities for which use of an engineering control is not possible. **Aerial applicators in the cockpit of fixed wing or rotary wing aircraft:** - Must be provided the PPE specified in the PPE section of this labeling for engineers, handlers, loaders or mixers, should the pilot be required to make an emergency, off site, landing due to a dispersing equipment failure where designed engineering controls have failed and the pilot is required to make a temporary emergency repair. - The provided PPE must be stored in a readily accessible area of the aircraft, which gives the pilot access to said PPE after landing and whereas storage of said PPE does not present a hazard to the safe operation of the aircraft. - Should the PPE be utilized in emergency conditions, the used or contaminated PPE will be removed from the wearer before entering or reentering the cab/cockpit. - All contaminated/used PPE must be stored in a closed, chemical-resistant container, such as a plastic bag, to prevent contamination of the aircraft or equipment. - The Pilot in Command will decide the safest transportation of the contaminated/used PPE once the emergency repair has been completed. **NOTE:** Aerial applicators are not required to use an enclosed cockpit and are not required to wear PPE while in the cockpit.

## GENERAL NOTICE 3

**User Safety Recommendations** Users should: - Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. - Remove clothing/PPE 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. It is recommended that any worker displaying clinical signs of cholinesterase-inhibition, such as headaches, nausea, and dizziness have an immediate physical examination including appropriate cholinesterase measurements. If initial examination was not conducted by a board-certified person who is certified in occupational health, then a separate examination should be conducted within 24 hours by a person so certified.

#### GENERAL NOTICE 4

**ENVIRONMENTAL HAZARDS** This pesticide is toxic to fish, aquatic invertebrates, and wildlife. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. Before making the first application in a season, consult with the primary State agency responsible for regulating the pesticide to determine if permits are required or regulatory mandates exist. Do not apply over bodies of water (e.g., lakes, swamps, rivers, permanent streams, natural ponds, commercial fish ponds, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment washwaters or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. To minimize hazard to bees, it is recommended that the product is not applied more than two hours after sunrise or two hours before sunset, limiting application to times when bees are least active. Do not apply this product or allow it to drift to blooming crops or weeds while bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health as determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or the tribe during a natural disaster recovery effort.

#### GENERAL NOTICE 5

**DIRECTIONS FOR USE** Before making the first application of the season, consult with the primary State agency responsible for regulating the use of pesticides to determine if permits are required or regulatory mandates exist. 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 Concentrate is a special formulation for the control of mosquitoes, flies and certain other nuisance insects.

#### GENERAL NOTICE 6

**APPLICATION RESTRICTIONS** This product cannot be diluted with water. For application by, or under the supervision of, personnel certified/trained in public health pest control or mosquito control. For each application, a record must be kept of: - Date, time and areas where application occurred - Type and size of spray nozzle used - Dilution and application rate - Speed of application vehicle - A description of insecticide delivery system used for the specific application - Climate factors (e.g., ambient temperature, wind speed/direction) as determined using reliable means - Employees involved in mixing, loading and applying DIBROM Concentrate. These records must be kept by the responsible public agency or their designee for a minimum of two years using storage methods that will allow the records to be easily retrieved. Any system used to apply this product must be capable of providing the correct droplet size as specified below. Likewise, all applications must use the correct droplet size as specified below. Careful attention to equipment specifications concerning nozzles, nozzle positioning, air speed and droplet size is essential to avoid unwanted effects. Under-atomization produces large droplets that will quickly fall to the ground, while over-atomization produces finer droplets which either evaporate, dissipate, or drift in an unanticipated manner. Correct droplet size is critical to ensure effective mosquito control. The entire spray system must be inspected before each operation to correct any leaks or obstructions, to detect whether the nozzle, hoses, or other parts are worn and need replacement, to ensure that the flow is properly calibrated and to determine that adequate pressure is being maintained. Adequate cleaning and maintenance of the unit must be performed to ensure that the entire system is operating properly. Spray system components essential for correct droplet size must be cleaned or replaced as needed to ensure correct droplet size. Spray during periods when ground level wind speed is equal to or greater than 1 mph. Apply when thermal activity is low. Do not apply when ambient temperature is less than 50 degrees F. Do not apply when it is raining in the treatment area. Treatment of a site must be based on pest surveillance results. Do not treat any site more than 1 time per day. Do not treat any site with more than 2 fl. oz. of undiluted DIBROM Concentrate per acre within a 7 day period and the amount of undiluted DIBROM Concentrate applied to any site must not exceed 3.25 qts (104 fl. oz.) (10.73 pounds of naled a.i./acre) per year. More frequent treatments may be made to prevent or control a threat to public and/or animal health as determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

#### GENERAL NOTICE 7

**Aerial Application:** Apply by air using only manned aircraft (Fixed Wing or Rotary). For manned Fixed Wing aircraft, apply at a minimum height of 100 feet. For manned Rotary aircraft, apply at a minimum height of 75 feet. Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns (Dv 0.5 < 60 micrometres) and that 90% of the spray is contained in droplets smaller than 115 microns (Dv 0.9 < 115 micrometres). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a wind tunnel and laserbased measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

**GENERAL NOTICE 8**

OPERATIONAL USE INSTRUCTIONS - All equipment used in the mixing or application of DIBROM Concentrate must be constructed of corrosion-resistant materials. Stainless steel, bronze, brass, fiberglass, polypropylene and rigid PVC have all proven to be adequately resistant to the effects of DIBROM Concentrate when properly maintained and inspected. - Use of Teflon(R) or Viton seals is recommended. Even when these materials are used to construct a spray system, a careful maintenance program involving flushing, cleansing and constant inspection must be followed. Avoid use of steel or galvanized steel. - Strain DIBROM Concentrate as it is being loaded. Use a 100 mesh stainless steel or nylon screen. If product crystallization occurs, warm at 80 degrees 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 recommended. Use of flushing agents such as 99% isopropyl alcohol, heavy aromatic naphtha "Jet A" aircraft fuel, Aromatic 150, Aromatic 200, and Aromatic 200ND have been successful. - DIBROM Concentrate must be applied using the correct droplet size. Over-atomization produces finer droplets which either evaporate or dissipate too quickly and become unavailable for mosquito contact. 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.

**GENERAL NOTICE 9**

It is required that this product be used in a CLOSED SYSTEM. This container may require a tank adapter. For questions regarding tank adapters, call AMVAC Customer Service at 1-888-462-6822 (1 888-GO-AMVAC).

**TANK MIX INFORMATION****TANK MIXES  
NOTICE:**

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

**SPECIAL INSTRUCTIONS**

This product cannot be diluted with water.