



GMCA 2025

Derek Wright
National Sales Manager
Public Health - Vector
derekw@amvac.com
941-737-9883 Direct

ABOUT US

AMGUARD™ Environmental Technologies



A Sole Registrant, Manufacturer & Regulatory support provider to
the public health mosquito control industry **for 40+ years.**

AMGUARD / AMVAC NORTH AMERICA



Manufacturing Facilities and labs



AMGUARD Environmental Technologies corporate headquarters, labs and customer service

Agrinos Clackamas, Oregon
Fermentation Plant

AMVAC Marsing, Idaho
Manufacturing/Formulating
Positioned to meet
NW US and Canada demands

AMVAC Los Angeles, CA
Manufacturing/Formulating
Close proximity to western distribution

**Glenn A. Wintemute
Research Center**
Commerce, California

**American Vanguard/AMVAC
Corporate Headquarters**
Newport Beach, California

AMVAC Hannibal, Missouri
Manufacturing

Excellent rail and truck transportation

80% of US
corn market

**AMGUARD Environmental
Technologies, Morrisville, NC**
Research and Development

AMVAC Axis, Alabama
Manufacturing/Formulating
Location lends
geographic diversity

Bioderpac Sonora, Mexico
Chitin Extraction Plant

DIBROM CONCENTRATE & TRUMPET EC

Axis, Alabama Formulation & Manufacturing Facility

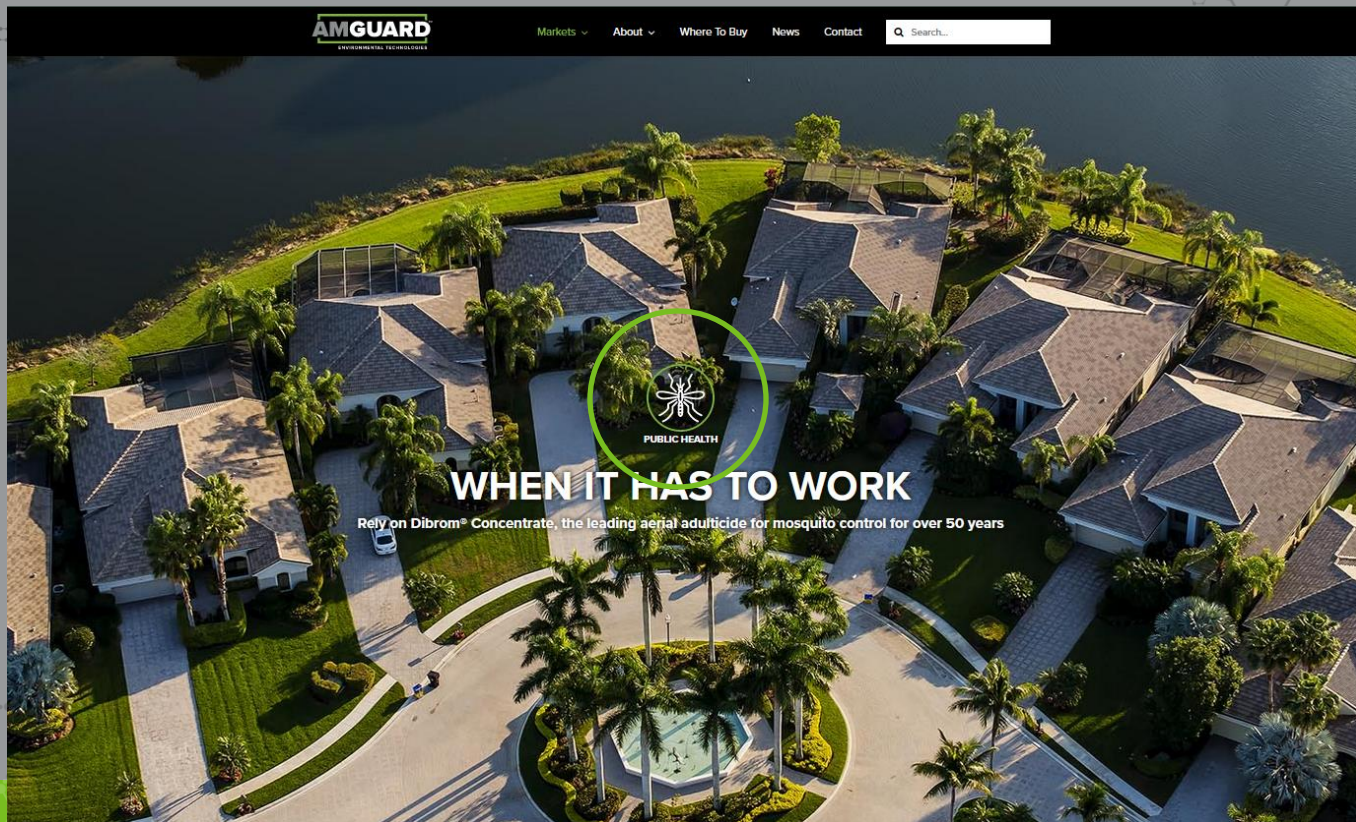
AMGUARD
ENVIRONMENTAL TECHNOLOGIES



AMVAC manufacturing plant in Axis, Alabama



<https://www.amguardtech.com/market/public-health/>



AMGUARD
ENVIRONMENTAL TECHNOLOGIES

Markets ▾ About ▾ Where To Buy News Contact


PUBLIC HEALTH

WHEN IT HAS TO WORK

Relly on Dibrom® Concentrate, the leading aerial adulticide for mosquito control for over 50 years

INNOVATION HAS A NEW NAME

AMGUARD

ABOUT AMGUARD


PUBLIC
HEALTH


PEST
CONTROL


ORNAMENTAL
& GREENHOUSE


GOLF


LAWN &
LANDSCAPE


CONSUMER


WHERE
TO BUY


GREEN
SOLUTIONS

CAREERS

AMGUARD's portfolio of companies are entrepreneurial, innovative, and rewarding. We are always seeking authentic, talented and driven team members that share our vision for becoming the fastest growing non-crop business in the US. If you are interested in any of our current openings or have interest in being part of the team, we'd like to hear from you.

OPEN POSITIONS

-  Regional Sales Manager — Pest & Turf & Landscape — Southwest
-  Regional Sales Manager — Pest Control — Northeast & Mid-Atlantic
-  Regional Sales Manager — Pest & Turf & Landscape — South Central US



ALL PUBLIC HEALTH PRODUCTS



AVESTA® CS
AVESTA™ CS is a non-crop herbicide.

LEARN MORE



DIBROM® CONCENTRATE
DIBROM® CONCENTRATE is a non-crop herbicide.

LEARN MORE



NUVAN® PROSTRIPS®
NUVAN® PROSTRIPS® is a non-crop herbicide.

LEARN MORE

LATEST NEWS



01/19/2023
AMERICAN VANGUARD CORPORATION
ACQUIRES ASSETS OF AMERICAN BIO-
SYSTEMS



10/24/2022
MEET THE 2022 AMERICAN
INNOVATORS OF THE PEST CONTROL
INDUSTRY



07/13/2022
AMGUARD® CELEBRATES THE
AMERICAN SPIRIT

DON'T MISS OUT

Get special offers, product information and more delivered right to your inbox.

EMAIL ADDRESS *

FIRST NAME *

LAST NAME *

TITLE

ALL PUBLIC HEALTH PRODUCTS



AVESTA® CS
INSECTICIDE WITH LAMBDA-CYHALOTHRIN

LEARN MORE



DIBROM® CONCENTRATE
ADULTICIDE WITH NALÉD

LEARN MORE



NUVAN® PROSTRIPS®
INSECTICIDE WITH DICHLORVOS

LEARN MORE



NUVAN® PROSTRIPS®+
INSECTICIDE WITH DICHLORVOS

LEARN MORE



SUMMIT® B.T.I. BRIQUETS
LARVICIDE WITH B.T.I.

LEARN MORE



TRUMPET® EC
ADULTICIDE WITH NALÉD

LEARN MORE



WISDOM® TC FLOWABLE
INSECTICIDE WITH BIFENTHRIN

LEARN MORE



• Product Details

- Packaging
- Product ID
- EPA Registration #
- Labels
- Safety Data Sheets

• Resources

- States Registered
- Drum Return Program
- Technical manuals
- Registration Review Fact Sheet
- Mosquitocontrolfacts.com
- And more...

DIBROM® CONCENTRATE

ADULTICIDE WITH NALED

DIBROM® CONCENTRATE is the leading mosquito adulticide for aerial applications and is ideally suited for public health or mosquito-abatement programs. It is extremely effective at controlling mosquitoes (even populations that have developed resistance to pyrethroids) and flies with minimal environmental persistence.



PRODUCT DETAILS RELATED PRODUCTS REGISTERED STATES

PRODUCT DETAILS

SDS

LABEL

SELL SHEET



ACTIVE INGREDIENTS

- Naled 87.4%



EFFECTIVE AGAINST

- Mosquitoes



APPLICATIONS

- For use only by federal, state, tribal or local government officials, or by appropriately authorized or certified personnel
- For aerial application



PRODUCT SIZES & PHOTOS

- 30 gal. drum



FEATURES

- IRAC Group 1-B Insecticide
- MODE OF ACTION Naled, an organophosphate insecticide, works by inhibiting acetylcholinesterase and ultimately paralyzing insect nervous systems
- DIBROM® CONCENTRATE comes in returnable 30-gallon drums with Micromatic fittings for added handler safety



RESOURCES

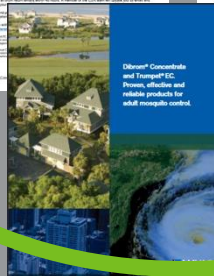
- 1 Naled Registration Review Fact Sheet
- 2 AMGUARD National Drum Return Program
- 3 Technical Manual
- 4 Mosquito Control Facts and Resources

RELATED PRODUCTS

AMGUARD

DIBROM® CONCENTRATE 87.4% NALED® 87.4% 2023 NATIONAL DRUM RETURN PROGRAM

Thank you for participating in the 2023 National Drum Return Program. This program is designed to help you safely and responsibly dispose of your old drums and receive a credit for your new drums. The program is open to all AMGUARD customers who have purchased drums since 2020. To participate, you must return your old drums to a participating location by the deadline of August 31, 2023. For more information, please visit <https://www.amguard.com/national-drum-return-program>.



DIBROM® Concentrate and Tanglefoot® 2G, Proven, effective and reliable products for adult mosquito control.

AMGUARD

ENVIRONMENTAL TECHNOLOGIES

AMGUARD

AMGUARD Environmental Technologies Fact Sheet - Naled Registration Review

July 20, 2023

This is the nationwide Naled Registration Review Fact Sheet. It provides information on the Naled Registration Review process, including the deadline for returning drums and the credit for new drums.

AMGUARD Environmental Technologies and Tanglefoot® 2G, Proven, effective and reliable products for adult mosquito control.

AMGUARD Environmental Technologies and Tanglefoot® 2G, Proven, effective and reliable products for adult mosquito control.

AMGUARD Environmental Technologies and Tanglefoot® 2G, Proven, effective and reliable products for adult mosquito control.

AMGUARD Environmental Technologies and Tanglefoot® 2G, Proven, effective and reliable products for adult mosquito control.

AMGUARD Environmental Technologies and Tanglefoot® 2G, Proven, effective and reliable products for adult mosquito control.

AMGUARD Environmental Technologies and Tanglefoot® 2G, Proven, effective and reliable products for adult mosquito control.

AMGUARD Environmental Technologies and Tanglefoot® 2G, Proven, effective and reliable products for adult mosquito control.

AMGUARD Environmental Technologies and Tanglefoot® 2G, Proven, effective and reliable products for adult mosquito control.

AMGUARD Environmental Technologies and Tanglefoot® 2G, Proven, effective and reliable products for adult mosquito control.

AMGUARD Environmental Technologies and Tanglefoot® 2G, Proven, effective and reliable products for adult mosquito control.

AMGUARD Environmental Technologies and Tanglefoot® 2G, Proven, effective and reliable products for adult mosquito control.

RESOURCES

- 1 Naled Registration Review Fact Sheet
- 2 AMGUARD National Drum Return Program
- 3 Technical Manual
- 4 Mosquito Control Facts and Resources

ANNUAL HURRICANE DATA

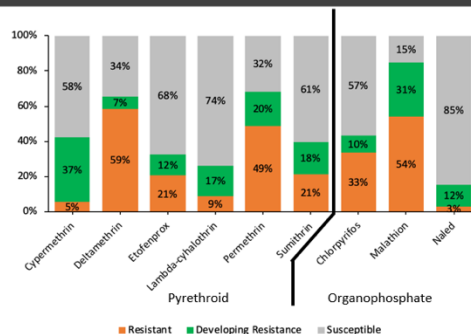
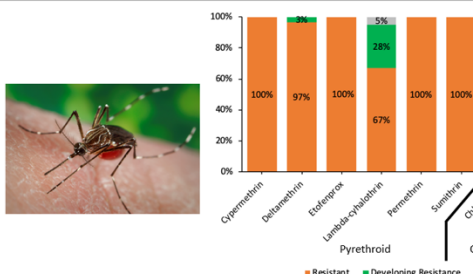
Example: "MCIRT data from FDACS post Hurricane Ian reports Dibrom achieved 89.93% to 99.39% control of *Culex nigrapalpus* & *Psorophora columbia* across 2MM acres over 16 days..."

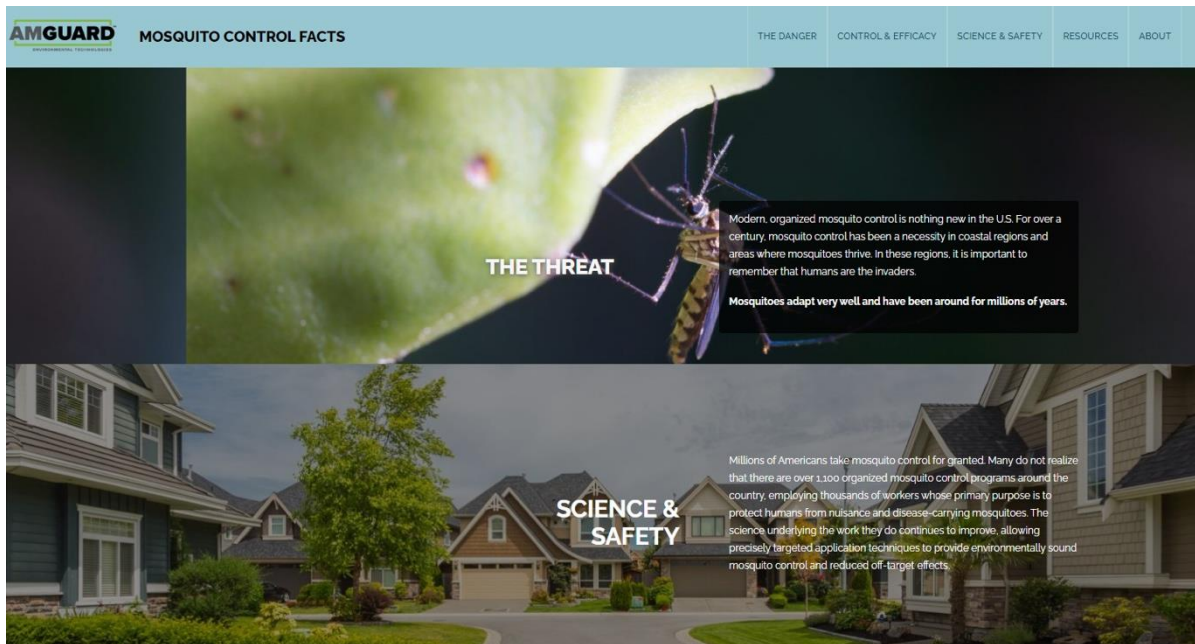


©2023 AMGUARD Environmental Technologies - Confidential

Chemical	Application rate (ounce/acre)	Prespray trap numbers	Postspray trap numbers	% control
Duet	0.8	4,096	2,302	43.8
Duet	0.8	233	263	-11
Duet	0.8	1,552	3,376	-117
Duet	0.8	510	266	47.8
Duet	0.8	274	128	53
Duet	0.8	1,354	967	28.6
Duet	0.8	1,668	736	55.9
Duet	1	3,248	2,152	33.8
Duet	1	7,418	3,787	49
Duet	1	74	36	51.4
Duet	1	148	90	39.2
Duet	1	356	123	65.4
Duet	1	170	88	48
Dibrom	0.7	3,787	872	77
Dibrom	0.7	5,589	42	99.2
Dibrom	0.7	1,289	573	55.5
Dibrom	0.7	3,213	257	92
Dibrom	0.7	174	29	83.3
Dibrom	0.7	4,565	1,412	69.1
Dibrom	0.7	2,542	323	87.3
Dibrom	0.7	8,612	302	96.5
Dibrom	0.7	251	15	94
Dibrom	0.7	2,458	71	97.1
Dibrom	0.7	805	44	94.5
Dibrom	0.7	1,207	94	92.2

Aedes albopictus AI breakdown





<https://mosquitocontrolfacts.com/>

Registration Review Process

EPA reviews each registered pesticide **at least every 15 years** to ensure that each pesticide can carry out its intended function(s) without creating unreasonable adverse effects to human health and the environment.

EPA always strives to base its decisions on the best available and sound science.*

Registration Review Process

While each pesticide review is unique, all pesticides go through the same basic registration review process





Modeling Refinements

AMCA has already worked with a professional firm to identify discrepancies with current EPA modeling for Ultra Low Volume Applications

- 1) Current models are not validated for Area-Wide ULV adulticide use. They were developed and validated for Agriculture and Forestry applications
- 2) Inputs to the current model that were refined to better reflect ULV applications reduced deposition by 50%
- 3) The model does not take into account interception of droplets (from trees, buildings, other structures, and of course mosquitoes) that likely occurs in a "routine" ULV application. Such an effect is expected to significantly lower the concentration of residue deposition.
- 4) EPA is reviewing the comments provided in response to their preliminary assessment as it related to naled toxicology and exposure. It is being proposed that added refinements should be considered in the final assessment.

AMCA is ready to work with researchers to collect the empirical data necessary to justify modifications/refinements to the models



PREPARATION

Support Tools

- Closed System Drum Handling
 - Micromatic Valves/Couplers
 - Request from your distributor
 - Replace as needed



• Drum Disposal

- Prepared drums are picked up and disposed of at your convenience, and at our expense.



DIBROM® CONCENTRATE and TRUMPET® EC 2023 NATIONAL DRUM RETURN PROGRAM

Through our **AMGUARD Environmental Technologies** product stewardship program, **Container Services Network (CSN)** manages all returns of your empty **DIBROM® CONCENTRATE** and **TRUMPET® EC** drums. This is a premium service provided at no additional cost to you. The following instructions are provided to assist you in this process. As always, we thank you for your cooperation and your trust in **AMGUARD Environmental Technologies** products.

LTL Carrier Requirements Update
Carriers are no longer accepting loading double stacked pallets or loose drums. This change is consistent with most LTL carriers across the country. The effort is to improve handling and load configuration to aid routing efficiencies. Please refer to the following requirements and instructions to ensure a smooth drum return experience:

1. Each drum must be empty and weigh 29 lbs., or less, with all openings securely sealed.
2. Please have a minimum quantity of eight (8) drums before scheduling your return.
3. Wrap drums securely to each pallet.
4. Stage drums for safe access and loading.

When is a drum considered empty?
DIBROM® CONCENTRATE and **TRUMPET® EC** are delivered in blue 30-gallon HDPE closed-system drums. Each drum is filled according to production weight to ensure a minimum dispensable volume of thirty gallons. Once empty, each drum should weigh < 29 lbs. Four (4) empty drums on a standard pallet will weigh approximately 116 lbs. Please confirm all drums are empty and properly sealed to avoid additional return and/or disposal fees.

Step #1
Send an email to logistics@containerservicenetwork.com. Include the quantity of drums being returned, a detailed pick-up address, hours of operation for receiving trucks and a mobile contact number where the driver can reach you.

Step #2
CSN responds to all drum return emails within 48 hours. A member of the CSN team will update you by email and include a copy of your Bill of Lading (BOL). Once received, please review all details on the BOL for accuracy.

Step #3
PRINT the BOL and provide it to the driver upon arrival. The availability of preferred carriers varies daily. We appreciate your patience during this process and feel free to contact us with any questions or concerns.

Please contact us with any questions: **Ryan Aci** at RyanAci@amvac.com or **Kelli Phares** at KelliP@amvac.com or **Derek Wright** at DerekW@amvac.com Mobile 941-737-0883

DIBROM® CONCENTRATE and TRUMPET® EC are EPA registered products of AMVAC Chemical Corporation and restricted use pesticides. Register, Amend label and follow label instructions. Some products may not be registered for sale or use in all states or countries. Please check with your state agency responsible for pesticide registration to ensure registration status.

©2023 AMVAC Chemical Corporation. All rights reserved. AMERICAN VANGUARD, AMVAC, AMGUARD, DIBROM, TRUMPET, and respective logos are trademarks owned by AMVAC Chemical Corporation. AMGUARD Environmental Technologies is the specialty markets division of AMVAC Chemical Corporation, a wholly owned subsidiary of American Vanguard Corporation. Amguardtech.com 2023-08-02

5151 McCrimmon Parkway, Ste. 275 Morrisville, NC 27560 | Amguardtech.com | (888) 462-6822



Returns of 8 or more empty drums must be staged and securely strapped on a single (on-stacked) pallet.

Wingbeats Spotlight



Photo courtesy of:
Jefferson Davis Parish Mosquito Abatement District
Robert Tonn – Director

Air Operations

Aerial mosquito control operations at Jeff Davis Parish began in 1983 with one 1978's Bellanca-Scout, followed by a Cessna 180, Piper Aztec, and eventually a T34 Avers Thrush. In 2017, the parish moved to a 2010 Air-Tractor 502, and the following year to a 2012 Air-Tractor 304 for its improved training and surveillance capabilities. Today, both Air-Tractors stay busy treating over a million acres each year for the thick broods of mosquitoes that threaten the parish's human and extensive animal populations. Each aircraft is equipped with a custom 100-gallon aluminum hopper tank, 24v electric pump feeding two Micro-Air AU2000 rotary atomizers, and the latest GPS based mission management systems. Curt Bowers, past director and long-time pilot for JDP, is still flying and supported by pilot Nick Sabelhaus and AP Mechanic Donnie Legros.

JDPMD Air Crew (L to R):
Robert Tonn - Director, Heath Deese - Assistant Director & Aerial Operations Manager.
Photo: Curt Bowers & Nick Sabelhaus, AP Mechanic: Donnie Legros (not photographed).



Jefferson Davis Parish Mosquito Abatement District (JDPMD) was formed in 1979 and currently serves a population of 35,000 residents within a total land area of 652 square miles. "Jeff Davis" Parish is a quaint, rural community offering extensive agricultural commodities of rice, soybeans, crawfish, sugarcane, and beef cattle. JDPMD monitors over 80,000 acres of rice and crawfish farms; which provide habitat for *Psorophora columbiae* and *Anopheles quadrimaculatus*.

DIBROM CONCENTRATE

TRUMPET EC

LEADING AERIAL ADULTICIDES

AMGUARD Environmental Technologies is committed to providing proven and trusted solutions for public health professionals. For more than 50 years, Dibrom® Concentrate has been the leading aerial adulticide for mosquito control. Dibrom Concentrate and Trumpet® EC are proudly manufactured in the United States.

DIBROM CONCENTRATE and TRUMPET EC are EPA registered products of AMVAC Chemical Corporation and restricted use pesticides. Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or countries. Please check with your state agency responsible for pesticide registration to ensure registration status.

©2024 AMVAC Chemical Corporation. All rights reserved. AMVAC, AMVAC VANGUARD, AMVAC, AMGUARD, DIBROM, TRUMPET, and respective logos are trademarks owned by AMVAC Chemical Corporation. AMGUARD Environmental Technologies is the specialty business division of AMVAC Chemical Corporation, a wholly owned subsidiary of American Vanguard Corporation. AMVAC/ETC/Logo



Photo courtesy of:
Anastasia Mosquito Control District
St. Augustine, FL

Aircraft: Anastasia Mosquito Control District 1980C100 operating 1980 C100 Jet Ranger and uses EGAR liquid larvicide, SOLAR adulticide, and dry banding tanks respectively. The aircraft is a 2010 Jet Ranger 300B set up for flyover in St. Johns County, FL.

AMVAC's right program is in its second year of operation. Utilized for surveillance, larviciding, and adulticiding, the flight crew is responsible for a county of just over 200,000 acres.

AMVAC Flight Crew (L to R):
Mike Phillips, Helicopter Pilot/CT, Dana Smith, Chief Pilot/Station Manager, and Ralph Bruner, APT/FA. All three are also FAA crew pilots.

Anastasia Mosquito Control District treated 27,000 acres with Dibrom in 2020, calibrated at .701 oz per acre. It is projecting the ability to disperse up to 90 gallons of Dibrom per shift, in 2021, as directed by the gathered scientific data.

DIBROM CONCENTRATE

TRUMPET EC

LEADING AERIAL ADULTICIDES

AMVAC Environmental Products is committed to providing proven and trusted solutions for public health professionals. For more than 50 years, Dibrom® Concentrate has been the leading aerial adulticide for mosquito control. Dibrom Concentrate and Trumpet® EC are proudly manufactured in the United States.

DIBROM CONCENTRATE and TRUMPET EC are EPA registered products of AMVAC Chemical Corporation and restricted use pesticides. Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or countries. Please check with your state agency responsible for pesticide registration to ensure registration status.

©2024 AMVAC Chemical Corporation, a wholly owned subsidiary of American Vanguard Corporation. All rights reserved. AMVAC, AMVAC VANGUARD, AMVAC, AMGUARD, DIBROM, TRUMPET, and respective logos are trademarks owned by AMVAC Chemical Corporation. AMGUARD Environmental Technologies is the specialty business division of AMVAC Chemical Corporation, a wholly owned subsidiary of American Vanguard Corporation. AMVAC/ETC/Logo



THANK YOU

Derek Wright

941-737-9883

derekw@amvac.com