

**Standard Purchasing Resolution 2: Award to Sole Bidder Meeting Specifications - Mosquito Control Services**

Resolution #2025-03-031-J-4d

RESOLVED, That Troy City Council hereby **AWARDS** a three (3) year contract to provide Mosquito Control Services to the sole bidder; *Vector Disease Control International* of Little Rock, AR, for an estimated total annual cost of \$36,200 for 2025, \$37,200 for 2026, and \$38,375 for 2027 at the unit prices contained in the bid tabulation, a copy of which shall be **ATTACHED** to the original Minutes of this meeting, with the contract expiring December 31, 2027; not to exceed budgetary limitations.

BE IT FURTHER RESOLVED, That the award is **CONTINGENT** upon the submission of properly executed contract documents, including insurance certificates and all other specified requirements.

# PURCHASE ORDER

Ship To

CITY OF TROY  
Building Operations  
4693 ROCHESTER ROAD  
TROY, MI 48085

Bill To

CITY OF TROY  
Building Operations  
4693 ROCHESTER ROAD  
TROY, MI 48085

No. 2025-00001198  
DATE: 03/14/2025  
PAGE: 1 of 1  
FOB DESTINATION

VENDOR NO. 176629

Vendor

VECTOR DISEASE CONTROL INTERNATIONAL, LLC  
1320 BROOKWOOD DR, STE H  
LITTLE ROCK, AR 72202

EXPIRATION DATE  
12/31/2025  
COUNCIL RESOLUTION  
2025-03-031-J-4d

QUANTITIES ARE ESTIMATED AND WILL BE ORDERED AS NEEDED

QUANTITY	UNIT	DESCRIPTION	UNIT COST	TOTAL COST
5	Each	Retention Pond Application - Proposal A	630.0000	\$3,150.00
5	Each	Parks Application - Proposal B	3,620.0000	\$18,100.00
5	Each	Municipal Sites Application - Proposal C	495.0000	\$2,475.00
2	Each	Cemeteries Application - Proposal D	200.0000	\$400.00
200	Each	Larvicide Briquette for Park Catch Basins - Proposal G	6.5000	\$1,300.00
5	Each	Sylvan Glen Application - Proposal E	1,550.0000	\$7,750.00
5	Each	Sanctuary Lake Application - Proposal F	485.0000	\$2,425.00



Entered By: Andrew Chambliss

\$35,600.00

## Special Instructions:

CITY COUNCIL AWARD DATE: 3/10/2025. Contract for Mosquito Control Services in accordance with the specifications and completion date of ITB-COT 25-04. CERTIFICATE OF INSURANCE and ENDORSEMENTS shall be on file through contract completion. YEAR ONE (1) OF A THREE (3) YEAR CONTRACT

## TERMS & CONDITIONS

1. Purchases of Municipalities are exempt from State Sales and Federal Excise Taxes.
2. Prior to acceptance, vendor agrees to provide City with information under the Right-to-Know Law, P.A. 1986, No. 80, and fully comply with all terms and conditions of the Michigan Occupational Safety and Health Act, MCL 408.1001, et seq. including vendor shall provide City with an "MSDS". Vendor also agrees to be responsible for all required labeling.
3. In cases of emergency/disaster, the City can purchase up to six(6) times the order amount for a period of six(6) months at the price contained in the contract.
4. Purchase Orders are signed electronically based upon computer generated "on-line" authorized approvals. Authentic signatures are on file in the City of Troy Purchasing Department.

NOTICE: The City could put the vendor on notice that vendors will be held financially responsible for any claims or awards made against the City as a result of the vendor's action. If the City has to defend the initial lawsuit, the City will bring in the vendor as a co-defendant or sue the vendor, either as the result of settling a claim or the conclusion of the lawsuit.

I HEREBY CERTIFY THAT THIS ORDER IS PROPERLY AUTHORIZED AND APPROVED.

A handwritten signature in black ink, appearing to read "Andrew K. Chambliss", is written over a horizontal line.

VENDOR NAME	Vector Disease Control International (VDCI)
CITY:	Little Rock, AR
CHECK AMOUNT:	\$2,000.00
CHECK #:	1368453

Proposal: THREE-YEAR REQUIREMENTS OF MOSQUITO CONTROL								
Proposal	Product Type	Est'd Acreages	Unit Pricing - Cost Per Application					
			2025		2026		2027	
			Labor	Product	Labor	Product	Labor	Product
Proposal A - Retention Ponds	Larvicide	5.6	\$150.00	\$280.00	\$150.00	\$300.00	\$150.00	\$300.00
	Adulticide	10.2	\$100.00	\$100.00	\$100.00	\$110.00	\$100.00	\$120.00
			\$250.00	\$380.00	\$250.00	\$410.00	\$250.00	\$420.00
Est Annual Cost Proposal A			\$3,150.00		\$3,300.00		\$3,350.00	
Proposal B - Parks	Larvicide	38.3	\$1,250.00	\$1,760.00	\$1,250.00	\$1,825.00	\$1,295.00	\$1,900.00
	Adulticide	290.1	\$450.00	\$160.00	\$450.00	\$180.00	\$450.00	\$200.00
			\$1,700.00	\$1,920.00	\$1,700.00	\$2,005.00	\$1,745.00	\$2,100.00
Est Annual Cost Proposal B			\$18,100.00		\$18,525.00		\$19,225.00	
Proposal C - Misc. Municipal Sites	Larvicide	4	\$85.00	\$190.00	\$85.00	\$200.00	\$85.00	\$210.00
	Adulticide	65.7	\$100.00	\$120.00	\$100.00	\$125.00	\$100.00	\$130.00
			\$185.00	\$310.00	\$185.00	\$325.00	\$185.00	\$340.00
Est Annual Cost Proposal C			\$2,475.00		\$2,550.00		\$2,625.00	
Proposal D - Cemeteries	Adulticide	9.8	\$100.00	\$100.00	\$100.00	\$105.00	\$100.00	\$110.00
Est Annual Cost Proposal D			\$1,000.00		\$1,025.00		\$1,050.00	
Proposal E - Sylvan Glen Golf Course	Larvicide	21.1	\$330.00	\$1,000.00	\$330.00	\$1,050.00	\$330.00	\$1,100.00
	Adulticide	23.5	\$100.00	\$120.00	\$100.00	\$125.00	\$100.00	\$130.00
			\$430.00	\$1,120.00	\$430.00	\$1,175.00	\$430.00	\$1,230.00
Est Annual Cost Proposal E			\$7,750.00		\$8,025.00		\$8,300.00	
Proposal F - Sanctuary Lake Golf Course	Larvicide	2.2	\$50.00	\$115.00	\$50.00	\$115.00	\$50.00	\$115.00
	Adulticide	26	\$200.00	\$120.00	\$200.00	\$130.00	\$200.00	\$140.00
			\$250.00	\$235.00	\$250.00	\$245.00	\$250.00	\$255.00
Est Annual Cost Proposal F			\$2,425.00		\$2,475.00		\$2,525.00	
Proposal G - Park Catch Basins	Larvicide Briquette	200	\$500.00	\$800.00	\$500.00	\$800.00	\$500.00	\$800.00
Est Cost Per Application Proposal G			\$1,300.00		\$1,300.00		\$1,300.00	
Estimated Annual Total:			\$36,200.00		\$37,200.00		\$38,375.00	
Estimated Grand Total 3-Years			\$111,775.00					
Site Inspection		Y/N	Y					
Contact Information: Hours of Operation:			24 Hours					
24 Hr. Phone No.:			419-722-2607					
Email Address:			tgreen@vdc.net					
Can complete 100% work timely:		Y/N	Y					
Can meet Completion Schedule:		Y/N	Y					
Insurance Met:		Y/N	Y					
References:		Y/N	Y					
Deviation from Specs Section:		Y/N	Y					
General Questionnaire:		Y/N	Y					
Payment Terms:			Net 30					
Acknowledgement:		Y/N	Y					
Exceptions:		Y/N	None					
Forms:		Y/N	Y					

ATTEST:  
(\*Bid Opening conducted via a Zoom Meeting)  
Dennis Trantham  
Andrew Chambliss  
Nellie Bert  
Dina Gates

Emily Frontera  
Purchasing Manager



## CITY OF TROY BID PROPOSAL

**ITB-COT 25-04**  
Page 1 of 8

The undersigned proposes to furnish **THREE-YEAR REQUIREMENTS OF MOSQUITO CONTROL** in accordance with the specifications and maps attached hereto and to be considered an integral part hereof, at the following prices:

COMPANY NAME: Vector Disease Control International

### PROPOSAL:

The undersigned as bidder declares that he/she having examined the specifications with related documents and the sites of the proposed work, and being familiar with all of the conditions surrounding the application of the proposed work, including availability of materials and labor, hereby proposes to furnish all labor, tools, support equipment (trucks, trailers, sprayers, etc.), transportation and materials to complete the project in accordance with the contract documents, within the time set forth therein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the contract documents, of which this Proposal is part.

### IMPORTANT:

Unit prices shall be quoted by the COST / UNIT OF MEASURE (acre, mile, and basin) / APPLICATION for each designated year of service, with the exception of the briquettes which shall be quoted on a per unit basis per year.

Mosquito Control								
Proposals	Product Type	Estimated Acreages	Unit Pricing					
			Cost Per Acre per Application					
			2025		2026		2027	
			Labor	Product	Labor	Product	Labor	Product
Proposal A- Retention Ponds	Larvicide	5.6	\$ 150	\$ 280	\$ 150	\$ 300	\$ 150	\$ 300
	Adulticide	10.2	\$ 100	\$ 100	\$ 100	\$ 110	\$ 100	\$ 120
Proposal B- Parks	Larvicide	38.3	\$ 1250	\$ 1760	\$ 1250	\$ 1825	\$ 1295	\$ 1900
	Adulticide	290.1	\$ 450	\$ 160	\$ 450	\$ 180	\$ 450	\$ 200
Proposal C- Misc. Municipal Sites	Larvicide	4	\$ 85	\$ 190	\$ 85	\$ 200	\$ 85	\$ 210
	Adulticide	65.7	\$ 100	\$ 120	\$ 100	\$ 125	\$ 100	\$ 130
Proposal D- Cemeteries	Adulticide	9.8	\$ 100	\$ 100	\$ 100	\$ 105	\$ 100	\$ 110
Proposal E- Sylvan Glen Golf Course	Larvicide	21.1	\$ 330	\$ 1000	\$ 330	\$ 1050	\$ 330	\$ 1100
	Adulticide	23.5	\$ 100	\$ 120	\$ 100	\$ 125	\$ 100	\$ 130
Proposal F- Sanctuary Lake Golf Course	Larvicide	2.2	\$ 50	\$ 115	\$ 50	\$ 115	\$ 50	\$ 115
	Adulticide	26	\$ 200	\$ 120	\$ 200	\$ 130	\$ 200	\$ 140
Proposal G- Park Catch Basins	Larvicide Briquette	# of basins 200	\$ 500	\$ 800	\$ 500	\$ 800	\$ 500	\$ 800

**EXTENSIONS:**

The City of Troy Purchasing Department will make the extensions to calculate the cost per application which equals (labor + product) x estimated number of acres/basins; the yearly totals and the entire contract total.

**UNIT PRICES:**

Unit prices prevail. The City of Troy will correct all mathematical errors.

**ESTIMATED QUANTITIES:**

Quantities listed are estimated and not guaranteed, but are to be used for award purposes only. The City may add or delete acreage or number of catch basins at its option without invalidating the original contract.

**INFORMATION:**

Additional general information or questions about this project, please contact **Dennis Trantham**, Deputy Public Works Director at 248-524-3503 or at [Dennis.Trantham@troymi.gov](mailto:Dennis.Trantham@troymi.gov). Dennis is the City's designated representative for this project.

**DESIGNATED CITY REPRESENTATIVE:**

**Dennis Trantham**, Deputy Public Works Director is the designated City representative for this project.

**SITE INSPECTION:**

Bidders should examine example sites to determine the amount of work to be done in accordance with the specifications. If a bidder does not make a site inspection, that bidder accepts full responsibility and risk for any errors or omissions in his/her bid proposal. Contact **Dennis Trantham**, Deputy Public Works Director at 248-524-3503 or [Dennis.Trantham@troymi.gov](mailto:Dennis.Trantham@troymi.gov) between the hours of 8:00 a.m. to 4:00 p.m., Monday through Friday.

( ☒ ) Our company visited the locations on Current contract service provider.

( ☐ ) Our company did not visit the sites.

**DOWNPAYMENTS AND PREPAYMENTS:**

Any bid submitted which requires a down payment or prepayment for services prior to performance and acceptance, as being in conformance with specifications will not be considered for award. No payments will be made until work/ service is performed to the satisfaction of the authorized City representative.

**CONTACT INFORMATION:**

Hours of Operations: 24 hours Email Address: tgreen@vdcnet.net

24 Hr. Phone No. 419-722-2607

**AWARD:**

The evaluation and award of this bid shall be a combination of factors including, but not limited to: bid price, professional competence, references, submission of SDS sheets, and the correlation of the proposal submitted to meeting the needs of the City of Troy. The City of Troy reserves the right to award this bid to the lowest responsible bidder for each proposal or to combine proposals for all three years or for each year whatever is deemed to be in the City of Troy's best interest and reserves the right to reject low bids which have major deviations from specifications; to accept a higher bid which has only minor deviations.

COMPANY NAME: Vector Disease Control International

Please state the amount of work that your company can certify to be completed within the time allowable:

☒ 100% of the contract  
☐ Partial Contract:

☐ PROPOSAL (A)  
☐ PROPOSAL (B)  
☐ PROPOSAL (C)  
☐ PROPOSAL (D)  
☐ PROPOSAL (E)  
☐ PROPOSAL (F)  
☐ PROPOSAL (G)

**LOCAL PREFERENCE:**

The City of Troy reserves the right to award a contract to a local business, one which pays City of Troy taxes (real and/or personal), if the bid of a local vendor is within 5% of the lowest responsive and responsible non-local bidder, then the local vendor is given one chance to match the low bid.

**LAWS:**

All applicable State of Michigan and Federal laws, City and County ordinances, licenses and regulations of all agencies having jurisdiction shall apply to the award throughout and incorporated herein by reference.

**BID DEPOSIT AND FORFEITURE:**

The bid deposit of the lowest bidder shall be forfeit if, after bid opening, a change in the bid price or other provision of the bid is required by the bidder that is prejudicial to the interest of the City of Troy or fair competition.

**CONTRACT FORMS:**

Bidders should complete the Agreement, Legal Status of Bidder, Non-Collusion Affidavit, Certification regarding Debarment, the Certification regarding "Iran-Linked Business" and the Familial Disclosure forms and return with your bid proposal. Sole Proprietors must include the Worker's compensation Release Form as well.

**PUBLIC ACT 57:**

Public Act 57 requires contractors to provide certain notices to governmental entities concerning improvements on real property; to allow for modifications of contracts for improvement of real property; to provide for remedies; and to repeal acts and parts of acts. This contract shall comply with all applicable provisions of Public Act 57 [a copy of the act is attached for reference (2 pages)].

**SUBCONTRACTORS:**

The undersigned shall submit a list of proposed subcontractors, if applicable, for approval by the designated City representative. It will be understood that this may occur prior to bid award, but the bidder's status will not be final until approved by the Troy City Council.

**PURCHASE ORDER(S):**

After the Troy City Council has approved the award recommendation and acceptable insurance is on file; the successful bidder will receive a purchase order issued from the City of Troy, which will create a bilateral contract between the City of Troy and the successful bidder. The purchase order shall commit the bidder to perform the contract in accordance with specifications. A contract document will not be issued.

COMPANY NAME: Vector Disease Control International

**INVOICES:**

The contractor shall submit to the designated City representative detailed invoices that include minimally the purchase order number, type and cost of product applied, cost of labor to apply product, and location(s) of the application. The Designated City representative reserves the right to review a prototype of the invoice for completeness prior to award. Invoices that are incomplete will not be paid until all requested/required information is submitted. Payments will be made monthly on the basis of the value of the work completed to date that is within the parameters of the specifications.

**COMPLETION SCHEDULE:**

The designated City representative shall approve the work schedule prior to the start of the project. His/her decision as to acceptability shall be deemed in the City of Troy's best interest. The City of Troy is the only party to this contract that may authorize amendment of this schedule.

Areas are to be treated with a larvicide and an adulticide once in **May, June, July, August, and September of 2025 and of each subsequent contract year**. Additional pesticide applications on all or part of subject areas may be requested. Cost per acre per application will hold for additional applications.

- (✓) Our company can meet the completion schedule
- ( ) Our company cannot meet the completion schedule but offers: \_\_\_\_\_

**REFERENCES:**

The City of Troy requires that your company list at least three (3) clients who have recently had similar work performed by your company during the past three years. Please include the City of Troy as a reference, if the work was similar in nature to this project.

COMPANY: Dow Chemical Industrial Park  
ADDRESS: 693 Washington St. #627 Midland, Michigan 48460  
PHONE: 989.638.6978 CONTACT: Megan Raup  
EMAIL: mraup@dow.com

COMPANY: Franklin County Public Health  
ADDRESS: 280 E Broad Steet, Columbus, Ohio 43215  
PHONE: 614-634-0175 CONTACT: Zachary Holbert-Watson  
EMAIL: ZachHolbert-Watson@franklincountyohio.gov

COMPANY: The City of Chicago  
ADDRESS: 2133 W. Lexington Street, Chicag, Illinois 60612  
PHONE: 312-746-9026 CONTACT: Claudia Blanco  
EMAIL: claudia.blanco@cityofchicago.org

**CONTRACT TERMINATION:**

The City of Troy shall reserve the right to terminate the contract upon 30 days written notice due to poor performance. The City of Troy designated representative will be solely responsible for determining acceptable performance levels. His/her decision will be deemed in the City of Troy's best interest and will be final. The City of Troy reserves the right to re-award the contract to the next low bidder or re-bid the contract.

**TERMINATION FOR CONVENIENCE:**

The City may cancel the contract for its convenience, in whole or in part, by giving the contractor written notice 30 days prior to the date of cancellation. If the City chooses to cancel this contract in part, the charges payable under this contract shall be equitably adjusted to reflect those services that are cancelled.

COMPANY NAME: Vector Disease Control International

**NOTE:** Failure on the part of any bidder to contact his/her insurance carrier to verify that the insurance carried by the bidder meets City of Troy specifications may result in this proposal being completed incorrectly.

**OTHER:** Sole proprietors must execute a certificate of exemption from Worker's Compensation requirements or provide proof of Worker's Compensation Insurance. All coverage shall be with insurance carriers licensed and admitted to do business in Michigan in accordance with all applicable statutes of the State of Michigan and acceptable to the City of Troy.

**INSURANCE VERIFICATION:**

A bidder shall complete the above portion, which details additional costs that may be incurred for specified coverage without purchasing the additional coverage prior to bid submission.

**WORKERS' COMPENSATION INSURANCE,** including Employers' Liability Coverage, in accordance with all applicable statutes of the State of Michigan.

**COMMERCIAL GENERAL LIABILITY INSURANCE** on an "Occurrence Basis" with limits of liability not less than \$1,000,000.00 per occurrence and aggregate. Coverage shall include the following extensions: (A) Contractual liability; (B) Products and Completed Operations; (C) Independent Contractors Coverage; (D) Broad Form General Liability Extensions or equivalent, if not already included; (E) Deletion of all Explosion, Collapse, and Underground (XCU) Exclusions, if applicable.

**AUTOMOBILE LIABILITY,** including Michigan No-Fault Coverages, with limits of liability not less than \$1,000,000.00 per occurrence combined single limit for Bodily Injury, and Property Damage. Coverage shall include all owned vehicles, all non-owned vehicles, and all hired vehicles.

**ADDITIONAL INSURED:**

Commercial General Liability and Automobile Liability, as described in the attached SAMPLE shall include an Additional Insured Endorsement stating the following shall be ***Additional Insureds:*** The City of Troy including all elected and appointed officials, all employees and volunteers, all boards, commissions, and/or authorities and council members, including employees and volunteers thereof. It is understood and agreed by naming the City of Troy as additional insured, coverage afforded is considered to be primary and any other insurance the City of Troy may have in effect shall be considered secondary and/or excess.

**CANCELLATION NOTICE:**

All policies, as described above, shall include an endorsement stating that it is understood and agreed that Thirty (30) days, Ten (10) days for non-payment of premium, Advance Written Notice of Cancellation, Non-Renewal, Reduction, and/or Material Change shall be mailed to:

City of Troy Purchasing Manager  
500 West Big Beaver  
Troy, MI 48084

**PROOF OF INSURANCE COVERAGE:**

The Contractor shall provide the City of Troy, at the time that the contracts are returned by him/her for execution, a Certificate of Insurance as well as the required endorsements. In lieu of required endorsements, if applicable, a copy of the policy sections where coverage is provided for additional insured and cancellation notice would be acceptable. Copies or certified copies of all policies mentioned above all shall be furnished, if so requested. If any of the applicable coverages expire during the term of this contract, the Contractor shall deliver renewal certificates and endorsements to the City of Troy at least ten (10) days prior to the expiration date.

COMPANY NAME: Vector Disease Control International



**LETTER VERIFICATION:**

The recommended bidder will be notified to submit a letter from the *insurance agent or carrier* that the insurance to be supplied will meet specifications. As an alternative, the recommended bidder may submit the certificate of insurance meeting specifications at this time at his/her option. ***The City must receive this letter or certificate within 5 business days after verbal / electronic notification has been delivered to the recommended bidder or the bidder will be considered non-responsive and the bid un-awardable.*** This process will occur before presentation of the award recommendation to the Troy City Council.

**FINAL INSURANCE CERTIFICATE SUBMISSION:**

After approval by Troy City Council, the City's Purchasing Manager will review the insurance certificates and endorsements to ensure all acceptable documents have been received and allow (5) business additional days after verbal / electronic notification to submit final insurance certificate(s) in accordance with specifications. The City of Troy reserves the right to WITHHOLD AND KEEP any bid surety for failure to comply. The company will be considered in default of contract and will be barred from doing business with the City of Troy for a minimum of three (3) years for failing to meet insurance requirements.

1. **MANDATORY REQUIREMENT:** THE SUCCESSFUL BIDDER(s) MUST PROVIDE ONE OF THE FOLLOWING ALTERNATIVES (either A or B or C)

- A. Environmental Impairment Liability Coverage: \$ 1,000,000 Limits; or
- B. A letter from the general liability carrier indicating that environmental exposures are covered under the general liability coverage; or
- C. A letter from the insurance company indicating that the work to be performed by their client is not considered an environmental liability exposure.

**Our company will provide Alternate:**     ☒ **A**   or   **B**   or   **C**     (Circle one)

2. **NON-MANDATORY REQUIREMENT: PER PROJECT AGGREGATE LIMIT ENDORSEMENT**

The City of Troy would prefer that a per project aggregate limit endorsement be included on the insurance certificate obtained by the successful bidder(s).

- (☒) Our company can obtain the coverage at an additional cost of \$ TBD for coverage explained below: Can obtain any/all insurance requirements required to perform the contract.
- ( ☐ ) Our company cannot obtain this coverage at any cost.

COMPANY NAME: Vector Disease Control International

### DEVIATION FROM SPECIFICATIONS SECTION

<b><i>Proposed Product(s)</i></b> <u>Altosid XR 150 briquettes for the catch basins, Vectolex FG</u> <u>for broad spectrum larviciding, and Permanone 30-30 for adulticiding</u>	
<div style="text-align: right;"><input type="radio"/> See attached</div>	
<input checked="" type="checkbox"/> <b><i>MSDS Sheet(s) attached to bid</i></b>	<input checked="" type="checkbox"/> <b>Sample of label(s) attached to bid</b>
<b><i>Reason for Proposed Alternative(s)</i></b>	
<div style="text-align: right;"><input type="radio"/> See attached</div>	

#### **APPROVED ALTERNATES:**

The City of Troy's designated department representative or his/her designees will review all items submitted for consideration as approved alternates. Their decision as to acceptability will be deemed in the City of Troy's best interest and will be final.

COMPANY NAME: Vector Disease Control International

## SIGNATURE PAGE

**PRICES:** Prices shall remain firm for 60 days or bid award, whichever comes first except the successful bidder(s) whose prices shall remain firm for the entire contract period. The contract shall commence on the date of award or April 1, 2025 whichever is later, and continue for three calendar years expiring December 31, 2027. The City of Troy may terminate this contract for convenience if in its best interest with written notice at least thirty (30) days in advance.

**SIGNATURE OF AUTHORIZED COMPANY REPRESENTATIVE:** Ted Green

**NOTE:** The undersigned has checked carefully the bid figures and understands that he/she shall be responsible for any error or omission in this bid offer and is in receipt of all addenda as issued.

TAX ID: 27-4501078

COMPANY Vector Disease Control International

ADDRESS 1320 Brookwood Drive Suite H CITY Little Rock STATE AR ZIP 72202

TELEPHONE NUMBER (833) 573-3456 FAX NUMBER (866) 839-8595

REPRESENTATIVE NAME: Theodore Green

**SIGNATURE OF AUTHORIZED COMPANY REPRESENTATIVE:** Ted Green (Print)

PAYMENT TERMS: net 30 EMAIL: tgreen@vdc.net

DELIVERY: AS SPECIFIED WARRANTY: \_\_\_\_\_

**EXCEPTIONS:** Any exceptions, substitutions, deviations, etc. from the City specifications and this proposal must be stated below. The reasons for the exception, deviation, etc. are an integral part of this bid offer.

### ACKNOWLEDGEMENT:

I, Theodore Green, certify that I have read the **Instructions to Bidders** (3 Pages) and that the bid proposal documents contained herein were obtained directly from the City's Purchasing Department or MITN website, [www.mitn.info](http://www.mitn.info) and is an official copy of the Authorized Version.

**SIGNATURE OF AUTHORIZED COMPANY REPRESENTATIVE** Ted Green

**IMPORTANT:** All City of Troy purchases require a MATERIAL SAFETY DATA SHEETS, where applicable, in compliance with the MIOSHA "Right to Know" Law. Please include a copy of relevant SDS at the time of bid submission.

**NOTE:** The City of Troy, at their discretion, may require the bidder(s) to supply a Financial Report from an impartial Financial Credit Reporting Service before award of contract.

**U.S. FUNDS:** All prices quoted are to be in U.S. currency.

**CITY OF TROY  
BIDDER'S GENERAL QUESTIONNAIRE  
MOSQUITO CONTROL**

Please provide the following information regarding your bid proposal.

1. State number of years' experience in this work: 32 years
2. List three (3) references that you have contracted with during the past year for this type of work. Include name of organization, contact person, telephone number, and email address:

ORGANIZATION EMAIL	CONTACT PERSON	TELEPHONE NUMBER
The City of Chicago	Claudia Blanco	312-746-9026
The Dow Chemical Company	Morgan Raup	810-471-1919
Franklin County Public Health	Zach Holbert-Watson	614-634-0175

3. State formal name and legal status of bidder, whether corporation, partnership, or individual.  
A corporation bidder shall give the state in which incorporated, a partnership bidder shall give all the names of the partners.

Vector Disease Control International, LLC

4. List all equipment owned by your firm that would be used for this contract - include quantity, make, model number and year. (List attached and marked \_\_\_\_\_ for identification.)

2021 Chevy Colorado (1), Model 9-10 London-Fogger ULV sprayer, Maruyama

backpack (granular larvicide application)

5. List of Personnel from the firm who would be assigned to this account along with a list of their certifications.

Theodore Green, Regional Director. Bachelors of Agriculture in Entomology

6. Does your Company have a Pesticide Application License? Y ☒ or N ☐ (If your Company does, please include a copy and attach it to the bid proposal at the time of submission.)

7. Does your company propose to use subcontractors? If so, state their name and the work to be performed.

No subcontractors

COMPANY NAME: Vector Disease Control International



## **Legal Status of Bidder:**

**The Bidder shall fill out the appropriate form and strike out the other two:**

---

A **corporation** duly organized and doing business under the laws of the State of Arkansas for whom Theodore Green, bearing the office title of Regional Director, whose signature is affixed to this proposal, is duly authorized to execute contracts.

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A **partnership**, all members of which, with addresses, is:

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N/A

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---

AN **INDIVIDUAL**, WHOSE SIGNATURE IS AFFIXED TO THE PROPOSAL:

---

N/A

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**CERTIFICATION REGARDING  
DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS**

The prospective participant certifies, to the best of its knowledge and belief, that it and its principals:

1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in transactions under any non-procurement programs by any federal, state or local agency.
2. Have not, within the three year period preceding, had one or more public transactions (federal, state, or local) terminated for cause or default; and
3. Are not presently indicted or otherwise criminally or civilly charged by a government entity (federal, state, or local) and have not, within the three year period preceding the proposal, been convicted of or had a civil judgment rendered against it:
  - a. For the commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public transaction (federal, state, or local), or a procurement contract under such a public transaction;
  - b. For the violation of federal, or state antitrust statutes, including those proscribing price fixing between competitors, the allocation of customers between competitors, or bid rigging; or
  - c. For the commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.

I understand that a false statement on this certification may be grounds for the rejection of this proposal or the termination of the award. In addition, the general grant of this authority exists within the City's Charter, Chapter 12, Section 12.2- Contracts

**[ ] I am able to certify to the above statements.**

Vector Disease Control International

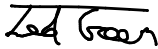
---

Name of Agency/Company/Firm (Please Print)

Theodore Green, Regional Director

---

Name and title of authorized representative (Please Print)



2-19-2025

---

Signature of authorized representative  
Date

**[ ] I am unable to certify to the above statements. Attached is my explanation.**

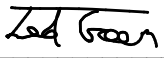


**VENDOR CERTIFICATION  
THAT IT IS NOT AN  
"IRAN LINKED BUSINESS"**

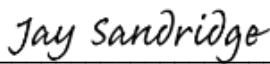
Pursuant to Michigan law, (the Iran Economic Sanctions Act, 2012 PA 517, MCL 129.311 et seq.), before accepting any bid or proposal, or entering into any contract for goods or services with any prospective Vendor, the Vendor must first certify that it is not an "IRAN LINKED BUSINESS", as defined by law.

Vendor	
Legal Name	Vector Disease Control International
Street Address	1320 Brookwood Drive Suite H
City	Little Rock
State, Zip	Arkansas 72202
Corporate I.D. Number/State	27-4501078
Taxpayer I.D. #	27-4501078

The undersigned, with: 1.) full knowledge of all of Vendors business activities, 2.) full knowledge of the requirements and possible penalties under the law MCL 129.311 et seq. and 3.) the full and complete authority to make this certification on behalf of the Vendor, by his/her signature below, certifies that: the Vendor is NOT an "IRAN LINKED BUSINESS" as require by MCL 129.311 et seq., and as such that Vendor is legally eligible to submit a bid and be considered for a possible contract to supply goods and/or services to the City of Troy.

Signature of Vendor's Authorized Agent: 

Printed Name of Vendor's Authorized Agent: Theodore Green

Witness Signature: 

Printed Name of Witness: Jay Sandridge



CITY OF TROY  
OAKLAND COUNTY, MICHIGAN  
NON-COLLUSION AFFIDAVIT

TO WHOM IT MAY CONCERN:

Theodore Green, being duly sworn deposed, says that he/she  
(Print Full Name)

is Regional Director. The party making the foregoing proposal or bid,  
(State Official Capacity in Firm)

that such bid is genuine and not collusion or sham; that said bidder has not colluded, conspired, connived, or agree, directly or indirectly, with any bidder or person, to put in a sham bid or to refrain from bidding and has not in any manner directly or indirectly sought by agreement or collusion, or communication or conference, with any person to fix the bid price or affiant or any other bidder, or to fix any overhead, profit, or cost element of said bid price, or that of any other bidder, or to secure the advantage against the City of Troy or any person interested in the proposed contract; and that all statements contained in said proposal or bid are true.

  
SIGNATURE OF PERSON SUBMITTING BID

  
NOTARY'S SIGNATURE

Subscribed and sworn to before me this 18<sup>th</sup> day of FEBRUARY, 2025 in and for  
KENTON County.

My commission expires:

07/20/2025







**Proposer's Sworn and Notarized Familial Disclosure**

*(to be provided by the Proposer)*

The undersigned, the owner or authorized officer of Vector Disease Control International / VDCI (the "Proposer"), pursuant to the familial disclosure requirement provided in the Request for Proposal, hereby represent and warrant, except as provided below, that no familial relationships exist between the owner(s) or any employees of \_\_\_\_\_ and any member of the City of Troy City Council or City of Troy management.

**List any Familial Relationships:**

**BIDDER:** \_\_\_\_\_

By: Theodore Green

Its: Regional Director, NE

STATE OF ~~MICHIGAN~~ KENTUCKY

)ss.

COUNTY OF KENTON)

This instrument was acknowledged before me on the 18<sup>th</sup> day of FEB, 2025, by

\_\_\_\_\_



# VectoLex<sup>®</sup> FG

## BIOLOGICAL LARVICIDE

### FINE GRANULE

#### ACTIVE INGREDIENT:

*Bacillus sphaericus* 2362, Serotype H5a5b, strain ABTS  
1743 fermentation solids, spores, and insecticidal toxins . . . 7.5%  
OTHER INGREDIENTS . . . . . 92.5%  
TOTAL . . . . . 100.0%

Potency: This product contains 50 BsITU/mg or 0.023 Billion BsITU/lb.  
Expiration Date: (Two years from the date of manufacture).

The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

EPA Reg. No.73049-20

EPA Est. No. 33762-IA-001

List No. 05722

#### INDEX:

- 1.0 First Aid
- 2.0 Precautionary Statements
  - 2.1 Hazard to Humans (and Domestic Animals)
  - 2.2 Environmental Hazards
- 3.0 Directions for Use
- 4.0 Storage and Disposal
- 5.0 Directions for Use - VectoLex FG
  - 5.1 Application Directions
- 6.0 Notice to User

## KEEP OUT OF REACH OF CHILDREN CAUTION

1.0

FIRST AID	
If in eyes	<ul style="list-style-type: none"><li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>Call a poison control center for treatment advice.</li></ul>
If on skin or clothing	<ul style="list-style-type: none"><li>Take off contaminated clothing.</li><li>Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>Call a poison control center or doctor for treatment advice.</li></ul>
If inhaled	<ul style="list-style-type: none"><li>Move person to fresh air.</li><li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</li><li>Call a poison control center or doctor for further treatment advice.</li></ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-315-9819 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-323-9597.	

## 2.0 PRECAUTIONARY STATEMENTS

### 2.1 HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if absorbed through the skin or inhaled. Avoid contact with skin, eyes or clothing. Wear protective eyewear. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Mixers/loaders and applicators not in enclosed cabs or aircraft, must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitizations.

### 2.2 Environmental Hazards

Do not apply directly to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

## 3.0 DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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 mosquito control applications, or by persons under their direct supervision. IN CALIFORNIA: This product is to be applied by County Health Department, State Department of Health Services, Mosquito and Vector Control or Mosquito Abatement District personnel, or persons under contract to these entities only.

## 4.0 STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not contaminate water when disposing of equipment washwaters.

**Pesticide Storage:** Store in a cool, dry place.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment, then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## 5.0 DIRECTIONS FOR USE - VECTOLEX FG

### 5.1 Application Directions

#### MOSQUITO CONTROL

VectoLex<sup>®</sup> FG Biological Larvicide Fine Granule (hereafter referred to as VectoLex FG) is a selective microbial insecticide for use against mosquito larvae in a variety of habitats. VectoLex FG can be applied to areas that contain fish, other aquatic life, and plants. VectoLex FG can be applied to areas used by or in contact with humans, pets, horses, livestock, birds, or wildlife.

CONTINUED

**I. For control of mosquito larvae species\* in the following non-crop sites:**

Habitat	Rate Range
<b>Wastewater:</b> Sewage effluent, sewage lagoons, oxidation ponds, septic ditches, animal waste lagoons, impounded wastewater associated with fruit and vegetable processing.	5-20 lbs/acre**
<b>Stormwater/Drainage Systems:</b> Storm sewers, catch basins, drainage ditches, retention ponds, detention ponds and seepage ponds.	5-20 lbs/acre**
<b>Marine/Coastal Areas:</b> Salt marshes, mangroves, estuaries.	5-20 lbs/acre**
<b>Water Bodies:</b> Natural and manmade aquatic sites such as lakes, ponds, rivers, canals, streams and livestock watering ponds and troughs.	5-20 lbs/acre**
<b>Dormant Rice Fields:</b> Impounded water in dormant rice fields. (For application only during the interval between harvest and preparation of the field for the next cropping cycle.)	5-20 lbs/acre**
<b>Waste Tires:</b> Tires stockpiled in dumps, landfills, recycling plants, and other similar sites.	0.5-2 lbs/ 1000 sq. ft.

**II. For the control of mosquito larvae species\* in the following agricultural/crop sites where mosquito breeding occurs:**

Habitats:	Rate Range
Rice, pastures/hay fields, orchards, citrus groves, irrigated crops.	5-20 lbs/acre**
Apply VectoLex FG uniformly by aerial or conventional ground equipment. Reapply VectoLex FG as needed after 1 to 4 weeks.	

\* Mosquito species effectively controlled by VectoLex FG, including many of those known to carry/transmit West Nile virus:

*Culex spp.*  
*Aedes vexans*  
*Ochlerotatus melanimon* (*Aedes melanimon*)  
*Ochlerotatus stimulans* (*Aedes stimulans*)  
*Ochlerotatus nigromaculis* (*Aedes nigromaculis*)  
*Psorophora columbiae*  
*Psorophora ferox*  
*Ochlerotatus triseriatus* (*Aedes triseriatus*)  
*Ochlerotatus sollicitans* (*Aedes sollicitans*)  
*Anopheles quadrimaculatus*  
*Coquillettidia perturbans*

\*\*Use higher rates (10 to 20 lbs/acre) in areas where extended residual control is necessary, or in habitats having deep water or dense surface cover.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the treatment coordinator are responsible for considering all these factors when making decisions.

## 6.0 NOTICE TO USER

To the extent consistent with applicable law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on this label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in accordance with accompanying directions.



## SAFETY DATA SHEET

1 of 10

### VectoLex® FG Biological Larvicide

SDS# VBC-0046 Revision 3

ISSUED 01/08/20

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

### 1.1 Product Identifier

**MATERIAL NAME:** VectoLex® FG Biological Larvicide

**Synonyms:** VectoLex® CG, VectoLex® G, VectoLex® 7.5 GR, VectoLex® WSP, ABG-6185

**EPA Reg No.:** 73049-20

**Code Number:** None

**List Number:** 05722

**Chemical Family:** Not applicable; microbial product

**Substance Registration Number(s)[REACH]:** N/A

### 1.2 Relevant Identified Uses and Uses Advised Against

**Identified Uses:** Biological mosquito larvicide

**Uses Advised Against:** It is a violation of Federal law to use this product in a manner inconsistent with its FIFRA pesticide labeling.

### 1.3 Details of the supplier of the Safety Data Sheet

**Supplied By:** Valent BioSciences LLC  
1910 Innovation Way, Suite 100  
Libertyville, Illinois 60048

### 1.4 EMERGENCY TELEPHONE NUMBERS

**Emergency Health or Spill:**

Outside the United States: 651-632-6184

Within the United States: 877-315-9819

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

Eye Irritation – Category 2B

### 2.2 Labeling Elements

**Symbol(s)**

None

**Signal Word**

WARNING

**Hazard Statement(s)**

Causes eye irritation



## SAFETY DATA SHEET

2 of 10

### VectoLex® FG Biological Larvicide

SDS# VBC-0046 Revision 3

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#### 2.3 Precautionary Statement:

##### Prevention

Wash hands and face thoroughly after handling

##### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

##### Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

#### 2.4 Other Hazards

None identified.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component Name	Percent
None	<i>Bacillus sphaericus</i> 2362, serotype H5a5b, strain ABTS 1743 fermentation solids	7.5
Trade Secret	Other ingredients	82.5

### 4. FIRST AID MEASURES

#### 4.1 Description of First Aid Measures

**GENERAL:** In all cases of doubt, seek medical attention.

**EYES:** Remove from source of exposure. Flush with copious amounts of water. Remove contact lenses, if present and easy to do, after the first 5 minutes, then continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

**SKIN:** Remove from source of exposure. Take off contaminated clothing. Flush with copious amounts of water. If irritation occurs or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**INGESTION:** Remove from source of exposure. Move person to fresh air. Do NOT induce vomiting. If signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

**INHALATION:** Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. If person is not breathing, call 911, then give artificial respiration.



## SAFETY DATA SHEET

3 of 10

VectoLex® FG Biological Larvicide

SDS# VBC-0046 Revision 3

ISSUED 01/08/20

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

### 4.2 Most important Symptoms and Effects, both Acute and Delayed

#### Acute

Possible eye irritation

#### Delayed

No information on significant adverse effects

### 4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically and supportively

## 5. FIRE FIGHTING PROCEDURES

### 5.1 Extinguisher Media

#### Suitable Extinguisher Media

Dry chemical, water spray, foam or carbon dioxide. Use appropriate medium for the underlying cause of the fire.

#### Unsuitable Extinguisher Media

None known

### 5.2 Specific Hazards Arising from the Chemical

#### Thermal decomposition products

Carbon oxides, nitrogen oxides

### 5.3 Advice to Firefighters

#### Protective Equipment and precautions for firefighters

Fire fighter should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection)

#### Fire & Explosive hazard

Not expected to be flammable.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For respiratory protection wear a dust mask. Wear eye protection appropriate to handling activities. Wear gloves. See personal protection as recommended in Section 8.

### 6.2 Environmental Precautions

Dispose of excess product and washwaters according to local regulations.



## SAFETY DATA SHEET

4 of 10

VectoLex® FG Biological Larvicide

SDS# VBC-0046 Revision 3

ISSUED 01/08/20

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

### 6.3 Methods and Materials for Containment and Cleaning Up

Wear appropriate personal protective equipment. Sweep up material and place in appropriate container for disposal. Avoid generating dust.

### 6.4 Reference to Other Sections

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

US Regulations may require reporting spills of hazardous materials: See Section 15: REGULATORY INFORMATION for details on reportable quantities, if any.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe handling

For respiratory protection wear a dust mask. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not eat, drink, chew gum or smoke while working with product, obey reasonable safety precautions and practice good housekeeping.

### 7.2 Conditions for Safe Storage, Including Incompatibilities

Protect against physical damage. Keep in original containers. Close containers of unused material. Store in a dry, cool place.

#### Incompatibilities

None Known

### 7.3 Specific End Use(s)

Pesticide, biological mosquito larvicide

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

#### Component Exposure Limits

None

#### Derived No Effect Levels (DNELs)

No DNELs available

#### Predicted No Effect Concentrations (PNECs)

No PNECs available

### 8.2 Exposure Controls

#### Appropriate Engineering Controls

Provide general ventilation.





## SAFETY DATA SHEET

5 of 10

### VectoLex® FG Biological Larvicide

SDS# VBC-0046 Revision 3

ISSUED 01/08/20

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

#### SKIN PROTECTION:

Wear protective clothing, including boots and gloves. For filling operations if dust/mist is produced wear a dust mask. Wash thoroughly with soap and water after handling.

#### EYE PROTECTION:

Wear Goggles, safety glasses with side shields or full-face shield when splashing or spraying of materials is likely.

#### RESPIRATORY PROTECTION:

Where respiratory protection is warranted, use dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C or a NIOSH approved respirator with any N, P, R or HE filter during application procedures or when repeat exposure is expected.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor:	Tan to Brown fine granules	Odor :	Characteristic odor
pH:	Not Determined	Boiling Point:	Not Determined
Melting Point:	Not Applicable	Solubility (H <sub>2</sub> O):	Not Determined
Specific Gravity:	Not Determined	Bulk Density:	Not Determined
Octanol/H <sub>2</sub> O Coeff:	Not Determined	Evaporation Rate:	Not Determined
Auto Ignition:	Not Determined	LFL:	Not Determined
Flash Point:	Not Determined	UFL:	Not Determined
Vapor Density:	Not Determined	Vapor Pressure:	Not Applicable
VOC:	Not Determined	Flammability Class:	None of the components are classified as flammable or highly flammable, it can be concluded that the preparation itself will not be classified as highly flammable.
Kinematic Viscosity:	Not Determined		

### 10. CHEMICAL STABILITY AND REACTIVITY

#### 10.1 Reactivity

Material does not pose a significant reactivity hazard.

#### 10.2 Chemical Stability

Stable under ordinary conditions of use and storage. Spontaneous reaction not possible.

#### 10.3 Possibility of Hazardous Reactions

Does not undergo hazardous polymerization

#### 10.4 Conditions to Avoid

None known





## SAFETY DATA SHEET

6 of 10

### VectoLex® FG Biological Larvicide

SDS# VBC-0046 Revision 3

ISSUED 01/08/20

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

#### 10.5 Incompatible Materials

None known

#### 10.6 Hazardous Decomposition Products

Carbon oxides and unidentified organic compounds.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on Toxicological Effects

##### LIKELY ROUTES OF EXPOSURE

Eye Contact: Yes

Skin Contact: Yes

Ingestion: No

Inhalation: No

##### ACUTE EFFECTS Product Toxicology Studies

ORAL TOXICITY: LD<sub>50</sub> > 5,000 mg/kg

DERMAL TOXICITY: LD<sub>50</sub> > 2,000 mg/kg

INHALATION TOXICITY: LC<sub>50</sub> > 0.09 mg/L highest attainable concentration

CORROSIVENESS: Not corrosive.

DERMAL IRRITATION: slightly-irritating

OCULAR IRRITATION: Eye irritant – Cat 2B

DERMAL SENSITIZATION: Skin sensitizer – Cat 1A

MUTAGENICITY INFORMATION: Components of this product are not listed as mutagens.

CARCINOGENICITY INFORMATION: Components of this product are not listed as carcinogenic by NTP, IARC or OSHA.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY: This material is not pathogenic

SPECIAL TARGET ORGAN EFFECTS: Eye and mucus membrane Irritation.

ASPIRATION HAZARD: Not Applicable

REPEAT DOSE STUDIES: Not Applicable, Pathogenicity Toxicity testing was all negative

### 12. ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity (Data for a Concentrated Technical Powder)

Fish: LC<sub>50</sub> >15.5 mg/L (96-H, Rainbow Trout)

LC<sub>50</sub> >15.5 mg/L (96-H, Blue Gill)

Bird: LC<sub>50</sub> >9g /kg (Acute Oral - Mallard)

Invertebrates: EC<sub>50</sub> >15.5 (48-H) (Daphnia)

Bees: Essentially non-toxic to bees



## SAFETY DATA SHEET

7 of 10

### VectoLex® FG Biological Larvicide

SDS# VBC-0046 Revision 3

ISSUED 01/08/20

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

#### 12.2 Persistence and Degradability

No data available

#### 12.3 Bioaccumulation potential

Not applicable. Substance is not pathogenic to non-target organisms

#### 12.4 Mobility in Soil

No data available

#### 12.5 Results of PBT and vPvB assessment

Assessments not performed

#### 12.6 Other adverse effects

None known

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste Disposal Methods

Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes.

##### US EPA WASTE NUMBER & DESCRIPTIONS:

There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.

### 14. TRANSPORTATION INFORMATION

#### DOT

STATUS: Not regulated for domestic ground transport by US DOT

UN PROPER SHIPPING NAME: N/A

REMARKS: N/A

#### IATA/ICA0

STATUS: Not Regulated

PROPER SHIPPING NAME: N/A

REMARKS: N/A

#### IMDG

STATUS: Not Regulated

PROPER SHIPPING NAME: N/A

REMARKS: N/A



## SAFETY DATA SHEET

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VectoLex® FG Biological Larvicide

SDS# VBC-0046 Revision 3

ISSUED 01/08/20

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

### **15. REGULATORY INFORMATION**

#### **15.1 Safety, Health and Environmental Regulations / Specific Legislation**

TSCA STATUS: Exempt

CERCLA STATUS: Not regulated as hazardous

SARA STATUS: Acute: No Chronic: No Fire: No CDT: No

RCRA STATUS: Not regulated as hazardous

State Right-To-Know: Not Listed

Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.

OSHA HAZARD COMMUNICATION STANDARD: Not defined by the OSHA Hazard Communication Standard, 29 CFR

#### **15.2 EPA Pesticide Regulations**

EPA Registration Number: 73049-20

EPA Pesticide Label signal word: CAUTION

Product must have EPA Approved Pesticide Label attached to or accompanying all containers.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions and limitations for its use.

### **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

#### **CAUTION**

Causes moderate eye irritation. Harmful if absorbed through the skin or inhaled. Avoid contact with skin, eyes or clothing. Wear protective eyewear. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Mixers/loaders and applicators not in enclosed cabs or aircraft must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

#### **ENVIRONMENTAL HAZARDS**

Do not apply directly to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.



## SAFETY DATA SHEET

9 of 10

### VectoLex® FG Biological Larvicide

SDS# VBC-0046 Revision 3

ISSUED 01/08/20

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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 mosquito control applications, or by persons under their direct supervision.

IN CALIFORNIA: This product is to be applied by County Health Department, State Department of Health Services, Mosquito and Vector Control or Mosquito Abatement District personnel, or persons under contract to these entities only.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in cool, dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment, then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### 16. OTHER INFORMATION

#### NFPA Hazard Ratings

Health: 1  
Flammability: 0  
Instability: 0

#### HMIS Hazard Ratings

Health: 1  
Flammability: 0  
Instability: 0

0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Extreme

REASON FOR ISSUE: Address Change

APPROVAL DATE: 01/08/20

SUPERSEDES DATE: 09/12/18

LEGEND: N/A = Not Applicable

N/L = Not Listed

C = Ceiling

(R) = Registered Trademark of Valent BioSciences LLC

(TM) = Registered Trademark of Valent BioSciences LLC

N/D = Not Determined

L = Listed

S = Short-term



## SAFETY DATA SHEET

10 of 10

### VectoLex® FG Biological Larvicide

**SDS# VBC-0046 Revision 3**

**ISSUED 01/08/20**

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.



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Libertyville, IL 60048 – 800-323-9597

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# Altosid<sup>®</sup> XR

## EXTENDED RESIDUAL BRIQUETS



**A SUSTAINED RELEASE PRODUCT TO PREVENT ADULT MOSQUITO EMERGENCE**  
**(INCLUDING THOSE WHICH MAY TRANSMIT WEST NILE VIRUS)**

## SPECIMEN LABEL

### ACTIVE INGREDIENT:

(S)-Methoprene (CAS #65733-16-6))

(Dry Weight Basis): . . . . . 2.1%

**OTHER INGREDIENTS:** . . . . . 97.9%

Total . . . . . 100.0%

EPA Reg. No. 2724-421

EPA Est. No. 2724-TX-1

KEEP OUT OF REACH OF CHILDREN

### CAUTION

SEE ADDITIONAL PRECAUTIONARY STATEMENTS

### INTRODUCTION

**ALTOSID<sup>®</sup> XR BRIQUETS** are designed to release effective levels of (S)-Methoprene insect growth regulator over a period up to 150 days in mosquito breeding sites. Release of (S)-Methoprene insect growth regulator occurs by dissolution of the briquet. Soft mud and loose sediment can cover the briquets and inhibit normal dispersion of the active ingredient. The product may not be effective in those situations where the briquet can be removed from the site by flushing action.

**ALTOSID<sup>®</sup> XR BRIQUETS** prevent the emergence of adult mosquitoes including: *Anopheles*, *Culex*, *Culiseta*, *Coquillettidia*, and *Mansonia* spp., as well as those of the floodwater mosquito complex (*Aedes*, *Ochlerotatus*, and *Psorophora* spp.) from treated water. Treated larvae continue to develop normally to the pupal stage where they die.

**NOTE:** (S)-Methoprene insect growth regulator has no effect on mosquitoes which have reached the pupal or adult stage prior to treatment.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

#### FIRST AID

Call a poison control center or doctor for treatment advice.

<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li></ul>

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.

#### ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of unused product.

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

## APPLICATION TIME

Place **ALTOSID® XR BRIQUETS** at or before the beginning of the mosquito season. Apply **ALTOSID® XR BRIQUETS** prior to flooding when sites are dry, or on snow and ice in breeding sites prior to spring thaw. Under normal conditions, one application will last the entire mosquito season, or up to 150 days, whichever is shorter. Alternate wetting and drying will not reduce their effectiveness.

## APPLICATION RATES

**Aedes, Ochlerotatus, and Psorophora spp.:** For control in non-(or low-) flow shallow depressions ( $\leq 2$  feet in depth), treat on the basis of surface area, placing one **ALTOSID® XR BRIQUET** per 200 ft<sup>2</sup>. Place briquets in the lowest areas of mosquito breeding sites to maintain continuous control as the site alternately floods and dries up.

**Culex, Culiseta and Anopheles spp.:** Place one **ALTOSID® XR BRIQUET** per 100 ft<sup>2</sup>.

**Coquillettidia and Mansonia spp.:** For application to cattail marshes and water hyacinth beds. For control of these mosquitoes, place one **ALTOSID® XR BRIQUET** per 100 ft<sup>2</sup>.

**Culex sp. in storm water drainage areas, sewers, and catch basins:** For catch basins, place one **ALTOSID® XR BRIQUET** into each basin. In cases of large catch basins, follow the chart below to determine the number of briquets to use. For storm water drainage areas, place one briquet per 100 ft<sup>2</sup> of surface area up to two ft deep. In areas that are deeper than two feet, use one additional briquet per two feet of water depth.

Water flow pressure increases the potential dissolution of the briquet. Conduct regular inspections (visual or biological) in areas of water flow to determine if the briquet is still present. Adjust the retreatment interval based on the results of an inspection.

**ALTOSID® XR BRIQUETS Application Chart**

Number of Briquets	Catch Basin Size (Gallons)	Surface Area/ Water Depth (ft)
1	0 – 1500	0 – 2
2	1500 – 3000	2 – 4
3	3000 – 4500	4 – 6
4	4500 – 6000	6 – 8

## APPLICATION SITES

**ALTOSID® XR BRIQUETS** are designed to control mosquitoes in treated areas. Examples of application sites are: storm drains, catch basins, roadside ditches, fish ponds, ornamental ponds and fountains, other artificial water-holding containers, animal watering troughs, cesspools and septic tanks, waste treatment and settling ponds, flooded crypts, transformer vaults, abandoned swimming pools, tires, construction and other manmade depressions, cattail marshes, water hyacinth beds, vegetation-choked phosphate pits, pastures, meadows, rice fields, freshwater swamps and marshes, salt and tidal marshes, treeholes, woodland pools, floodplains, and dredging spoil sites. For application sites connected by a water system, i.e., storm drains or catch basins, treat all of the water-holding sites in the system to maximize the efficiency of the treatment program.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**STORAGE:** Store in a cool place. Do not reuse empty container.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty container in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## WARRANTY AND CONDITIONS OF SALE

Seller makes no warranty, expressed or implied, concerning the use and handling of this product other than indicated on the label. To the extent permitted by law, Buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

For information, or in case of an emergency, call 1-800-248-7763.

[www.altosid.com](http://www.altosid.com)

**Wellmark International**  
1501 East Woodfield Road 200W  
Schaumburg, Illinois 60173



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Made in USA

May, 2010  
Schaumburg, IL





# Zoecon Altosid XR Extended Residual Briquets

## Safety Data Sheet

Issue date: 07/17/2015

Revision date: 07/22/2022

Supersedes: 05/31/2017

Version: 1.2

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Name : Zoecon Altosid XR Extended Residual Briquets  
Synonyms : 100508841, 100508842, 100508846, 100530326, EPA Reg. No.: 2724-421, ProLink XR Extended Release Briquets, Zoecon RF-292 Briquet, Altosid 150 Day XR Briquet

#### 1.2. Recommended use and restrictions on use

Recommended use : Insect growth regulator.  
Restrictions on use : Keep out of reach of children and domestic animals. Avoid contact with eyes, skin or clothing.

#### 1.3. Supplier

Wellmark International  
1501 E. Woodfield Road, Suite 200W  
Schaumburg, IL 60173 - United States  
www.zoecon.com

#### 1.4. Emergency telephone number

Emergency number : 1-800-248-7763  
1-800-424-9300 - CHEMTREC  
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Serious eye damage/eye irritation Category 2B

Causes eye irritation

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Signal word (GHS US) : Warning  
Hazard statements (GHS US) : Causes eye irritation  
Precautionary statements (GHS US) : Wash hands, forearms and face thoroughly after handling.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
(s)-Methoprene Technical	(CAS-No.) 65733-16-6	2.1
Plaster of paris	(CAS-No.) 26499-65-0	> 77.6
Non-hazardous and/or does not meet criteria for classification	(CAS-No.) N/A	Balance

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.



# Zoecon Altosid XR Extended Residual Briquets

## Safety Data Sheet

First-aid measures after inhalation	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
First-aid measures after ingestion	: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after eye contact	: Mild eye irritation.
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### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry chemical. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Avoid heavy hose streams.

### 5.2. Specific hazards arising from the chemical

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
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### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures	: Keep upwind. Wear appropriate personal protective equipment, avoid direct contact.
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#### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.
Emergency procedures	: Avoid dust formation. Do not scatter spilled material with high pressure water streams. Evacuate unnecessary personnel. Stay upwind. Stop release. Ventilate area. Wear appropriate personal protective equipment, avoid direct contact.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Use appropriate PPE. Sweep or scoop spills, dispose of any unusable material in approved landfill.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Provide local exhaust or general room ventilation. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool. Avoid humid, wet or moist conditions.
Incompatible materials	: Strong acids.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

# Zoecon Altosid XR Extended Residual Briquets

## Safety Data Sheet

Plaster of paris (26499-65-0)		
OSHA	OSHA PEL TWA [1]	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
NIOSH	NIOSH REL TWA	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

It is recommended for handlers to wear appropriate clothing to prevent skin contact including long sleeves, long pants, socks and shoes.

#### Respiratory protection:

In case of insufficient ventilation, use NIOSH approved respiratory protection.



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: White to gray briquet
Color	: White to gray
Odor	: Slight hydrocarbon
Odor threshold	: No data available
pH	: Not applicable
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: Non-flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.04 g/cc (64.9 lb/ft <sup>3</sup> )
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosion limits	: Not applicable

# Zoecon Altosid XR Extended Residual Briquets

## Safety Data Sheet

Explosive properties : Not explosive  
Oxidizing properties : Not applicable

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Avoid humid, moist or wet conditions.

### 10.5. Incompatible materials

Strong acids.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Zoecon Altosid XR Extended Residual Briquets	
LD50 oral rat	> 5100 mg/kg
LD50 dermal rabbit	> 2100 mg/kg

GHS-US Properties	Classification
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes eye irritation.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified

### Potential health effects

#### Inhalation

Acute : May cause respiratory tract irritation.

#### Skin

Acute : May cause mild skin irritation.

#### Eye

Acute : Causes mild eye irritation.

#### Ingestion

Acute : Under normal conditions of use, no health effects are expected.

**Mutagenicity** : (s)-Methoprene has been tested and found negative for mutagenicity potential.

**Carcinogenicity** : (s)-Methoprene is not classified as a carcinogen by NTP, IARC or OSHA.

# Zoecon Altosid XR Extended Residual Briquets

## Safety Data Sheet

**Reproductive Effects** : (s)-Methoprene is not a reproductive toxin and does not cause birth defects.

### SECTION 12: Ecological information

#### 12.1. Toxicity

(s)-Methoprene Technical (65733-16-6)	
LC50 Acute fish 1	0.76 mg/l (Exposure time: 96hr Oncorhynchus mykiss)
LC50 Acute fish 2	> 0.37 mg/l (Exposure time: 96h - Blue gill)
LC50 Acute crustacea 1	0.11 mg/l (Exposure time: 96h - Mysid shrimp)
LC50 Acute crustacea 2	0.36 mg/l (Exposure time: 48h Daphnia)
NOEC Chronic fish 1	0.048 mg/l (Fathead minnow)
NOEC Chronic crustacea 1	0.014 mg/l (Mysid shrimp)

#### 12.2. Persistence and degradability

(s)-Methoprene Technical (65733-16-6)	
Persistence and degradability	(s)-Methoprene degrades rapidly in sunlight, both in water and on inert surfaces. The pesticide also is metabolized rapidly in soil and does not leach. Thus, it should not persist in soil or contaminate ground water.

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

(s)-Methoprene Technical (65733-16-6)	
Mobility in soil	Rapidly metabolized in soil under both aerobic and anaerobic conditions (half-life 10-14 days).

#### 12.5. Other adverse effects

No data available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### SECTION 14: Transport information

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
<b>DOT</b>	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
<b>IMDG</b>	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
<b>IATA</b>	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

EPA Labelling	
EPA Registration Number	2724-421
This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.	
FIFRA Hazard statements	<b>Caution</b>
FIFRA Precautionary statements	KEEP OUT OF REACH OF CHILDREN.
FIFRA Hazards to Humans and Domestic Animals	Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

# Zoecon Altosid XR Extended Residual Briquets

## Safety Data Sheet

FIFRA First aid	Call a poison control center or doctor for treatment advice. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
FIFRA Environmental hazards	Do not contaminate water when disposing of unused product.

### 15.2. US State regulations

No additional information available

## SECTION 16: Other information

Issue date : 17 July 2015  
Revision date : 22 July 2022  
Supersedes : 31 May 2017

Indication of changes:

Revised Sec. 1: Emergency telephone number. Revised Sec. 3: Mixture classification change.

SDS US (GHS HazCom 2012) - CGP

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# Permanone<sup>®</sup>

## 30-30

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.

- CONTAINS A QUICK KNOCKDOWN, LOW ODOR, NON-CORROSIVE SYNERGIZED SYNTHETIC PYRETHROID
- FOR CONTROL OF ADULT MOSQUITOES IN RESIDENTIAL AND RECREATIONAL AREAS
- FOR USE AGAINST BITING AND NON-BITING MIDGES AND BLACK FLIES
- CONTAINS 2.5 LBS AI PERMETHRIN/GALLON
- CONTAINS 2.5 LBS AI PIPERONYL BUTOXIDE/GALLON

#### ACTIVE INGREDIENTS:

Permethrin.....	30.0%
Piperonyl Butoxide* .....	30.0%
OTHER INGREDIENTS:† .....	40.0%

**TOTAL:** 100.0%

\* (butylcarbityl (6-propylpiperonyl) ether and related compounds

† Contains Petroleum Distillates

EPA REG. NO. 432-1235

## KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque alguien para que se la explique a usted en detalle (If you do not understand the label get someone to explain it to you in detail).

For **MEDICAL** and **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day  
1-800-334-7577

For **PRODUCT USE** Information Call  
1-800-331-2867

Net Contents  
**275 Gallons**  
**04314564**

84105252A 141014AV1

Adult Mosquitoes



#### FIRST AID

<b>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Do not give any liquid to the person.</li><li>• Do not induce vomiting unless told to by a poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</li></ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

**NOTE TO PHYSICIAN: May pose an aspiration pneumonia hazard. Contains petroleum distillates.**  
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of Medical emergencies or health and safety inquiries or in case of fire, leaking or damaged containers, information may be obtained by calling 1-800-334-7577.

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

##### CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation. Wash thoroughly with soap and water after handling.

##### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of barrier laminate, nitrile rubber greater or equal to 14 mils or neoprene rubber greater or equal to 14 mils. If you want more options, follow the instructions for category E on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators and other handlers must wear:

Long-sleeved shirt and long pants,

Shoes plus socks,

Chemical-resistant gloves for all handlers except for applicators using motorized ground equipment, pilots, and flaggers

Chemical-resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate.

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.

See engineering controls for additional requirements.

##### USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should 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.

##### ENGINEERING CONTROLS

Pilots must use an enclosed cockpit that meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.24(d)(6)].

Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

##### ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. 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, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if permits or other regulatory requirements exist.

Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, 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 water when disposing of equipment wash waters.

This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow drift when bees are actively visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health 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. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.







# Permanone®

## 30-30

### PHYSICAL AND CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.  
READ ENTIRE LABEL FOR DIRECTIONS

Applications shall only be made when recommended by public health officials and trained personnel of mosquito abatement districts and/or other mosquito control programs.

Do not allow spray treatment to drift on cropland, (other than crops listed) or potable water supplies.

Not for use in outdoor residential misting systems.

Not for use in metered release systems.

FOR USE ONLY BY FEDERAL, STATE, TRIBAL OR LOCAL GOVERNMENT OFFICIALS RESPONSIBLE FOR PUBLIC HEALTH AND 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 APPLICATION, OR BY PERSONS UNDER THEIR DIRECT SUPERVISION.

### PRODUCT INFORMATION

PERMANONE® 30-30 is recommended for application as a thermal aerosol and an Ultra Low Volume (U.L.V.) nonthermal aerosol (Cold Fog) to control adult mosquitoes in residential and recreational areas where these insects are a problem; such as but not limited to parks, campsites, woodlands, athletic fields, golf courses, residential areas, municipalities, gardens, playgrounds, recreational areas, and overgrown waste areas. Treat when mosquitoes are most active and weather conditions are conducive to keeping the fog in the air column close to the ground, e.g. cool temperatures and wind speeds are equal to or greater than 1 mph. Application during the cool hours of night or early morning is usually preferable. All types of applications should be conducted at temperatures above 50°F.

### APPLICATION INSTRUCTIONS

Apply at a rate not to exceed 0.007 pounds of Permethrin per acre in any given 24 hour period. Do not retreat a site more than once in 3 days. Do not exceed 25 applications at 0.007 pounds of Permethrin per acre (not to exceed a total of 0.18 pounds of Permethrin per acre) in any given season. More frequent applications may be made to prevent or control a threat to public and/or animal health 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.

PERMANONE 30-30 can be applied to the air column over specific growing crops prior to harvest and range grasses for the control of adult mosquitoes and biting flies within or adjacent to these areas. Application can be made where the following crops are present:

Alfalfa, Almonds, Apples, Artichoke, Asparagus, Avocado, Broccoli, Brussel sprouts, Cabbage, Cantaloupe, Cauliflower, Celery, Cherry, Corn (field and pop), Corn (sweet), Eggplant, Filberts (Hazelnuts), Garlic, Horseradish, Lettuce, Onions (dry bulb only), Papayas (FL only), Peaches / Nectarines, Pears, Bell peppers, Pistachios, Potatoes, Soybeans, Spinach, Tomatoes, and Walnuts.

Cucurbit vegetables, including Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cuban pumpkin, Cucumber, Gherkin, Gourd (edible, includes hyotan, cucuzza, hechima, Chinese okra), Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of Cucumis melo including true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon and Winter melon), Pumpkin, Squash (includes summer squash types such as: butternut squash, calabaza, crookneck squash, Hubbard squash, scallop squash, straightneck squash, vegetable marrow and zucchini, and winter squash types such as acorn squash and spaghetti squash), Watermelon (includes hybrids and/or varieties of Citrullus lanatus)

Leafy Vegetables, including Leafy vegetables (except brassica) (Amaranth (leafy amaranth, Chinese spinach, tampaia), Arugula (Rockette), Chervil, Chrysanthemum (edible leaved and garland), Corn salad, Cress (garden), Cress (upland, yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Spinach (including New Zealand and vine (Malabar spinach, Indian spinach))

### Spray Droplet Size Determination

Apply when wind speed is greater than 1 mph.

### Ground Equipment:

Spray equipment must be adjusted so that the volume median diameter is less than 30 microns ( $D_v$  0.5 < 30  $\mu$ m) and that 90% of the spray is contained in droplets smaller than 50 microns ( $D_v$  0.9 < 50  $\mu$ m). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based 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.

### Aerial Application made at ≤ 200 feet above ground elevation:

Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns ( $D_v$  0.5 < 60  $\mu$ m) and that 90% of the spray is contained in droplets smaller than 100 microns ( $D_v$  0.9 < 100  $\mu$ m). 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 laser-based 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.

### Aerial Application made at >200 feet above ground elevation:

Spray equipment must be adjusted so that the volume median diameter produced is less than 70

microns ( $D_v$  0.5 < 70  $\mu$ m) and that 90% of the spray is contained in droplets smaller than 145 microns ( $D_v$  0.9 < 145  $\mu$ m). 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 laser-based 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.

### GROUND APPLICATION

#### ULV NON-THERMAL AEROSOL (COLD FOG)

To control Mosquitoes, Midges and Blackflies apply PERMANONE 30-30 using standard U.L.V. ground equipment or portable backpack sprayer. For vehicle-mounted non-thermal ULV equipment, base the acreage calculation on a swath width of 300-ft. If this product is applied undiluted at a flow rate of 1 fluid ounce per minute and a vehicle speed of 10 mph; the rate is equivalent to 0.0035 pounds Permethrin. If a different vehicle speed is used, adjust accordingly (see Dilution Table below). Vary flow rate according to vegetation density and mosquito population. Use the higher flow rate in heavy vegetation or when populations are high. Calibrate equipment to ensure the proper flow rate. PERMANONE 30-30 may also be applied by diluting with a suitable solvent such as mineral oil.

The following table presents sample dilutions and per acre rates for ground ULV applications. If an alternate dilution rate is used, adjust the flow rate accordingly.

DILUTION TABLE*							
GROUND ULV (300' swath width)							
APPLICATION RATE (LBS PERMETHRIN/A)	VEHICLE SPEED (MPH)	UNDILUTED		DILUTED 1:4		DILUTED 1:8	
		Flow Rate (fl oz/min)	fl oz/A	Flow Rate (fl oz/min)	fl oz/A	Flow Rate (fl oz/min)	fl oz/A
0.0015	5	0.23		1.15		2.07	
	10	0.47	0.08	2.35	0.39	4.23	0.70
	15	0.70		3.50		6.30	
0.0035	5	0.54		2.70		4.86	
	10	1.09	0.18	5.45	0.90	9.81	1.62
	15	1.63		8.15		14.67	
0.007	5	1.08		5.40		9.72	
	10	2.18	0.36	10.90	1.80	19.62	3.24
	15	3.26		16.30		29.34	

\* If an alternate dilution rate is used adjust the flow rate accordingly.

### AERIAL APPLICATION

PERMANONE 30-30 may be applied either diluted or undiluted at rates of 0.0035 lbs to 0.007 pounds Permethrin-PBO per acre by fixed wing or rotary aircraft capable of making a ULV application. Do not apply by fixed wing aircraft at a height less than 100 feet, or by helicopter at a height less than 75 feet. Apply when ground wind speed is equal to or greater than 1 mph. Applications shall only be made when recommended by public health officials and trained personnel of mosquito abatement districts and other mosquito control programs.

For best results, treat when insects are most active and meteorological conditions are conducive to keeping the spray cloud in the air column close to the ground. In order to compensate for windy conditions and ensure drift onto the target area aerial application with aircraft equipped with Global Positioning Systems (GPS) is recommended.

**IN FLORIDA:** Do not apply by aircraft unless approved by the Florida Department of Agriculture and Consumer Services.

### THERMAL AEROSOL FOGGING

TRUCK MOUNTED: Apply PERMANONE 30-30 using thermal fogging equipment. Dilute with a mineral oil (such as BVA13 mineral oil) or another suitable non-phytotoxic, highly refined base oil diluent. Diluents should have a flash point minimum of 168° F, an API gravity minimum of 32 @ 60° F and their density should be from 7.0 to 7.25 lbs/gal @ 60° F. Do not exceed the maximum rate. May be applied at speeds of 5 mph up to 15 mph with variable flow systems. For use with hand carried foggers, apply at rates up to but not exceeding 0.007 pounds permethrin per acre. Do not wet foliage since certain oil base formulations may be phytotoxic. Apply when ground wind speeds are equal to or greater than 1 mph. Use a well-maintained and properly calibrated fogger. Fog downwind.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store product in its original container in a cool, dry, locked place designated for such insecticides and out of reach of children. Avoid exposure to extreme temperatures. In case of spillage, soak up with absorbent material such as sawdust, or fullers earth, sweep up and place in a labeled container and dispose of as follows:

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

## STORAGE AND DISPOSAL (continued)

### CONTAINER HANDLING:

**Rigid, Non-refillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons)**

**Non-refillable container.** Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with mineral oil and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then 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.

**Rigid Non-refillable containers that are too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs)**

**Non-refillable container.** Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with mineral oil. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then 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.

**Refillable container.** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with mineral oil Agitate vigorously or recirculate mineral oil with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then 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.

## IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPS- SCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FIT- NESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those con- tained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICA- BLE LAW, BAYER CROPS- SCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**LIMITATIONS OF LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REM- EDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPS- SCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

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Backed by  
**BAYER**

Produced for:  
Bayer Environmental Science  
A Division of Bayer CropScience LP  
2 T. W. Alexander Drive  
Research Triangle Park, NC 27709

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Bayer



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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product identifier**

**Trade name** PERMANONE® 30-30

**Product code (UVP)** 05866587

**SDS Number** 102000013918

**EPA Registration No.** 432-1235

**Relevant identified uses of the substance or mixture and uses advised against**

**Use** Insecticide

**Restrictions on use** See product label for restrictions.

**Information on manufacturer**

Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

**Emergency telephone no.**

**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577 (24 hours/day)

**Product Information Telephone Number** 1-800-331-2867

**SDS Information or Request** SDSINFO.BCS-NA@bayer.com

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200**

Skin irritation : Category 2

Acute toxicity (Oral, Inhalation): Category 4



**Signal word:** Warning

**Hazard statements**

Causes skin irritation.

Harmful if swallowed or if inhaled.

**Precautionary statements**

Wash thoroughly after handling.

Wear protective gloves.





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Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
IF ON SKIN: Wash with plenty of water/soap.  
Specific treatment (see supplemental first aid instructions on this label).  
If skin irritation occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.  
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.  
Rinse mouth.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor/physician if you feel unwell.  
Dispose of contents/container in accordance with local regulation.

**Other hazards**

No other hazards known.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Concentration % by weight
Permethrin	52645-53-1	30.00
Piperonyl butoxide	51-03-6	30.00
HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	64742-46-7	38.80

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**SECTION 4: FIRST AID MEASURES**

**Description of first aid measures**

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

**Most important symptoms and effects, both acute and delayed**



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<b>Symptoms</b>	To date no symptoms are known.
<b>Indication of any immediate medical attention and special treatment needed</b>	
<b>Risks</b>	Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard. This product contains a pyrethroid.
<b>Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

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**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable** Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam, Water

**Unsuitable** None known.

**Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire.

**Advice for firefighters**

**Special protective equipment for fire-fighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point** 129.5 °C

**Autoignition temperature** no data available

**Lower explosion limit** no data available

**Upper explosion limit** no data available

**Explosivity** not applicable

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Methods and materials for containment and cleaning up**

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. Do not allow to enter soil,



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waterways or waste water canal.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

### Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Permethrin	52645-53-1	5 mg/m3 (TWA)	03 2014	ACGIH
Permethrin	52645-53-1	5 mg/m3 (REL)	2010	NIOSH
Permethrin	52645-53-1	5 mg/m3 (PEL)	02 2006	OSHA Z1
Permethrin	52645-53-1	5 mg/m3 (TWA)	1989	OSHA Z1A
Permethrin	52645-53-1	5 mg/m3 (TWA)	06 2008	TN OEL
Permethrin (Particulate.)	52645-53-1	50ug/m3 (ST ESL)	02 2013	TX ESL
Permethrin (Particulate.)	52645-53-1	5ug/m3 (AN ESL)	02 2013	TX ESL



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Permethrin	52645-53-1	5 mg/m3 (TWA PEL)	09 2013	US CA OEL
Permethrin	52645-53-1	10 mg/m3 (TWA)		OES BCS*
Piperonyl butoxide	51-03-6	500 ppm (TWA)		OES BCS*
HYDROTREATED MIDDLE DISTILLATES (PETROLEUM) (Inhalable fraction.)	64742-46-7	5 mg/m3 (TWA)	03 2014	ACGIH
HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	64742-46-7	3500ug/m3 (ST ESL)	02 2013	TX ESL
HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	64742-46-7	350ug/m3 (AN ESL)	02 2013	TX ESL

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**Exposure controls**

**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection**

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

**Hand protection**

Chemical resistant nitrile rubber gloves

**Eye protection**

Safety glasses with side-shields

**Skin and body protection**

Wear long-sleeved shirt and long pants and shoes plus socks.

**General protective measures**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.  
Keep and wash PPE separately from other laundry.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	beige to brown
<b>Physical State</b>	Liquid
<b>Odor</b>	characteristic
<b>Odour Threshold</b>	no data available
<b>pH</b>	no data available
<b>Vapor Pressure</b>	no data available



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<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	ca. 0.99 g/cm <sup>3</sup> at 20 °C
<b>Bulk density</b>	8.25 lb/gal
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	no data available
<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	non-emulsifiable
<b>Minimum Ignition Energy</b>	not applicable
<b>Decomposition temperature</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	not applicable
<b>Viscosity</b>	47 mPa.s at 20 °C
<b>Flash point</b>	129.5 °C
<b>Autoignition temperature</b>	no data available
<b>Lower explosion limit</b>	no data available
<b>Upper explosion limit</b>	no data available
<b>Explosivity</b>	not applicable

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**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

<b>Thermal decomposition</b>	no data available
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	no data available
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Exposure routes</b>	Eye contact, Skin contact, Ingestion, Inhalation
<b>Immediate Effects</b>	



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<b>Eye</b>	Moderate eye irritation.
<b>Skin</b>	Causes skin irritation. Harmful if absorbed through skin.
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	May be harmful if inhaled.

**Information on toxicological effects**

**Acute oral toxicity** LD50 (male/female combined rat) 993 mg/kg

**Acute inhalation toxicity** LC50 (rat) > 2.2 mg/l  
Exposure time: 4 h  
Determined in the form of liquid aerosol.  
  
LC50 (rat) > 8.8 mg/l  
Exposure time: 1 h  
Determined in the form of liquid aerosol.  
Extrapolated from the 4 hr LC50.

**Acute dermal toxicity** LD50 (rat) > 2,000 mg/kg

**Skin irritation** Moderate skin irritation. (rabbit)

**Eye irritation** Mild eye irritation. (rabbit)

**Sensitisation** Non-sensitizing. (guinea pig)

**Assessment repeated dose toxicity**

Permethrin did not cause specific target organ toxicity in experimental animal studies.  
Piperonyl butoxide did not cause specific target organ toxicity in experimental animal studies.

**Assessment Mutagenicity**

Permethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
Piperonyl butoxide was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**Assessment Carcinogenicity**

Permethrin caused at high dose levels an increased incidence of tumours in mice in the following organ(s): liver, Lungs. The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions.  
Piperonyl butoxide was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	64742-46-7	Group A4
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**NTP**

HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	64742-46-7	1980
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**IARC**

Permethrin	52645-53-1	Overall evaluation: 3
Piperonyl butoxide	51-03-6	Overall evaluation: 3
HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	64742-46-7	Overall evaluation: 3
HYDROTREATED MIDDLE DISTILLATES	64742-46-7	Overall evaluation: 1



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(PETROLEUM)

**OSHA**

None.

**Assessment toxicity to reproduction**

Permethrin did not cause reproductive toxicity in a two-generation study in rats.  
Piperonyl butoxide did not cause reproductive toxicity in a two-generation study in rats.

**Assessment developmental toxicity**

Permethrin did not cause developmental toxicity in rats and rabbits.  
Piperonyl butoxide did not cause developmental toxicity in rats and rabbits.

**Further information**

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

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**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish**

LC50 (Poecilia reticulata (guppy)) 0.0076 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient permethrin.  
LC50 (Cyprinodon variegatus (sheepshead minnow)) 3.94 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient piperonyl butoxide.

**Toxicity to aquatic invertebrates**

EC50 (Daphnia magna (Water flea)) 0.00017 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient permethrin.  
EC50 (Daphnia magna (Water flea)) 0.51 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient piperonyl butoxide.

**Toxicity to aquatic plants**

EC50 (Algae) 0.5 mg/l  
Exposure time: 72 h  
The value mentioned relates to the active ingredient permethrin.  
EC50 (Algae) > 9.1 mg/l  
Exposure time: 72 h  
The value mentioned relates to the active ingredient piperonyl butoxide.

**Biodegradability**

Permethrin: ; not rapidly biodegradable  
Piperonyl butoxide: ; not rapidly biodegradable

**Koc**

Permethrin: Koc: 100000  
Piperonyl butoxide: Koc: 399 - 830

**Bioaccumulation**

Permethrin: Bioconcentration factor (BCF) 300; Does not



**PERMANONE® 30-30**

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	bioaccumulate. Piperonyl butoxide: ; Potential bioaccumulation
<b>Mobility in soil</b>	Permethrin: Immobile in soil Piperonyl butoxide: Moderately mobile in soils
<b>Environmental precautions</b>	Do not apply when weather conditions favor runoff or drift. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

---

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

<b>Product</b>	Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.
<b>Contaminated packaging</b>	Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.
<b>RCRA Information</b>	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply. When and if this material is determined to be a waste, if discarded, this material may carry RCRA waste code(s) <b>NON-RCRA</b> . State and local laws may vary and must be considered.

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**SECTION 14: TRANSPORT INFORMATION**

**49CFR** Not dangerous goods / not hazardous material

**IMDG**

UN number	<b>3082</b>
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN, PIPERONYL BUTOXIDE SOLUTION)



# Bayer Environmental Science

## SAFETY DATA SHEET



### PERMANONE® 30-30

Version 3.0 / USA  
102000013918

10/11

Revision Date: 02/09/2015  
Print Date: 02/09/2015

#### IATA

UN number	3082
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN, PIPERONYL BUTOXIDE SOLUTION )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

## SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-1235

#### US Federal Regulations

##### TSCA list

Piperonyl butoxide	51-03-6
HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	64742-46-7

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**  
None.

#### SARA Title III - Section 302 - Notification and Information

None.

#### SARA Title III - Section 313 - Toxic Chemical Release Reporting

Permethrin	52645-53-1	1.0%
Piperonyl butoxide	51-03-6	1.0%

#### US States Regulatory Reporting

##### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

#### US State Right-To-Know Ingredients

Permethrin	52645-53-1	NJ, RI
Piperonyl butoxide	51-03-6	NJ, RI
HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	64742-46-7	CA

#### Canadian Regulations

##### Canadian Domestic Substance List

HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	64742-46-7
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# Bayer Environmental Science

## SAFETY DATA SHEET



### PERMANONE® 30-30

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#### Environmental

##### CERCLA

None.

##### Clean Water Section 307 Priority Pollutants

None.

##### Safe Drinking Water Act Maximum Contaminant Levels

Permethrin 52645-53-1

#### International Regulations

##### European Inventory of Existing Commercial Substances (EINECS)

Permethrin 52645-53-1

HYDROTREATED MIDDLE 64742-46-7

DISTILLATES (PETROLEUM)

#### EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:** Harmful if swallowed or absorbed through skin.  
Moderate eye irritation.  
Avoid contact with skin, eyes and clothing.

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## SECTION 16: OTHER INFORMATION

#### NFPA 704 (National Fire Protection Association):

Health - 2      Flammability - 1      Instability - 0      Others - none

#### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1      Flammability - 1      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

**Revision Date:** 02/09/2015

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.



500 West Big Beaver  
Troy, MI 48084  
troymi.gov

## CITY COUNCIL AGENDA ITEM



Date: March 4, 2025

To: Frank A. Nastasi, City Manager

From: Robert J. Bruner, Deputy City Manager  
Kyle Vieth, Controller  
Kurt Bovensiep, Public Works Director  
Dennis Trantham, Deputy Public Works Director  
Emily Frontera, Purchasing Manager

Subject: Standard Purchasing Resolution 2: Award to Sole Bidder Meeting Specifications – Mosquito Control Services

### History

- The Grounds Division is responsible for the maintenance of all municipal property including the control of pests.
- Park patrons, golf course participants, and property owners abutting some City of Troy maintained retention ponds have become accustomed to using these facilities with limited nuisances like mosquitoes.
- The objective of mosquito control is not to eradicate all mosquitoes but to limit the population to a tolerable threshold.
- The control targets both mosquito larva and adult mosquitoes.
- Although Oakland County Department of Health and Human Services recommends the best form of protection from mosquitoes is personal protection products, the mosquito control products used by professionals will decrease the mosquito population at some of our facilities.

### Purchasing

- February 20, 2025, a bid opening was conducted as required by City Charter/Code and bid proposals were received at the City's request from firms interested in providing three (3) year requirements of mosquito control services.
- The bid was posted on Bidnet Direct/MITN website; [www.bidnetdirect.com/mitn/city-of-troy-mi](http://www.bidnetdirect.com/mitn/city-of-troy-mi).
- Two hundred and fifty-nine (259) vendors were notified via the Bidnet Direct/MITN website. One (1) bid response was received. One (1) additional bid was considered non-responsive as they did not meet specifications regarding bid surety requirements. Below is a detailed summary of potential vendors for the bid opportunity:

Companies notified via MITN	259
Troy Companies notified via MITN	6
Troy Companies notified Active email Notification	6
Troy Companies - Active Free	0
Companies that viewed the bid	26
Troy Companies that viewed the bid	0

**MITN** provides a resourceful online platform to streamline the procurement process, reduce costs, and make it easier and more transparent for vendors to do business with the City of Troy. **Active MITN** members with a current membership and paying annual dues receive automatic electronic notification which allows instant access to Bids, RFPS and Quote opportunities with the City. **Active MITN non-paying members** are responsible to monitor and check the MITN website for opportunities to do business with the City. **Inactive MITN member** status can occur when a company does not renew their account upon expiration. Inactive members cannot be notified of solicitations or access any bid information.



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Troy, MI 48084  
troymi.gov

## CITY COUNCIL AGENDA ITEM

### **Financial**

Funds are budgeted and available in the following accounts: 101.445.514.802.160 - Streets and Drains Retention Ponds, 101.770.770.802.160 - Parks Maintenance, 101.770.756.802.070 - Civic Center Maintenance, 101.770.757.802.050 - Cemetery Maintenance, 584.785.802.160 Sylvan Glen Contractual Services and 585.765.802.160 Sanctuary Lake Contractual Services for Fiscal Year 2025 and will be budgeted for duration of the contract.

Also, note that the City of Troy has been eligible to seek annual reimbursement of up to \$11,582 from the Oakland County Department of Health and Human Services Program for the control of mosquito larva only.

### **Recommendation**

City Management recommends awarding a three (3) year contract for Mosquito Control Services to the sole bidder meeting specifications, *Vector Disease Control International (VDCI) of Little Rock, AR*, at unit prices as contained in the attached bid tabulation opened on February 20, 2025. The estimated annual cost is \$36,200 for 2025, \$37,200 for 2026, and \$38,375 for 2027, not to exceed budgetary limitations. VDCI services the City of Troy, along with other contracts across Metro Detroit, from its office in Brighton, Michigan.

VENDOR NAME	Vector Disease Control International (VDCI)
CITY:	Little Rock, AR
CHECK AMOUNT:	\$2,000.00
CHECK #:	1368453

Proposal: THREE-YEAR REQUIREMENTS OF MOSQUITO CONTROL								
Proposal	Product Type	Est'd Acreages	Unit Pricing - Cost Per Application					
			2025		2026		2027	
			Labor	Product	Labor	Product	Labor	Product
Proposal A - Retention Ponds	Larvicide	5.6	\$150.00	\$280.00	\$150.00	\$300.00	\$150.00	\$300.00
	Adulticide	10.2	\$100.00	\$100.00	\$100.00	\$110.00	\$100.00	\$120.00
			\$250.00	\$380.00	\$250.00	\$410.00	\$250.00	\$420.00
Est Annual Cost Proposal A			\$3,150.00		\$3,300.00		\$3,350.00	
Proposal B - Parks	Larvicide	38.3	\$1,250.00	\$1,760.00	\$1,250.00	\$1,825.00	\$1,295.00	\$1,900.00
	Adulticide	290.1	\$450.00	\$160.00	\$450.00	\$180.00	\$450.00	\$200.00
			\$1,700.00	\$1,920.00	\$1,700.00	\$2,005.00	\$1,745.00	\$2,100.00
Est Annual Cost Proposal B			\$18,100.00		\$18,525.00		\$19,225.00	
Proposal C - Misc. Municipal Sites	Larvicide	4	\$85.00	\$190.00	\$85.00	\$200.00	\$85.00	\$210.00
	Adulticide	65.7	\$100.00	\$120.00	\$100.00	\$125.00	\$100.00	\$130.00
			\$185.00	\$310.00	\$185.00	\$325.00	\$185.00	\$340.00
Est Annual Cost Proposal C			\$2,475.00		\$2,550.00		\$2,625.00	
Proposal D - Cemeteries	Adulticide	9.8	\$100.00	\$100.00	\$100.00	\$105.00	\$100.00	\$110.00
Est Annual Cost Proposal D			\$1,000.00		\$1,025.00		\$1,050.00	
Proposal E - Sylvan Glen Golf Course	Larvicide	21.1	\$330.00	\$1,000.00	\$330.00	\$1,050.00	\$330.00	\$1,100.00
	Adulticide	23.5	\$100.00	\$120.00	\$100.00	\$125.00	\$100.00	\$130.00
			\$430.00	\$1,120.00	\$430.00	\$1,175.00	\$430.00	\$1,230.00
Est Annual Cost Proposal E			\$7,750.00		\$8,025.00		\$8,300.00	
Proposal F - Sanctuary Lake Golf Course	Larvicide	2.2	\$50.00	\$115.00	\$50.00	\$115.00	\$50.00	\$115.00
	Adulticide	26	\$200.00	\$120.00	\$200.00	\$130.00	\$200.00	\$140.00
			\$250.00	\$235.00	\$250.00	\$245.00	\$250.00	\$255.00
Est Annual Cost Proposal F			\$2,425.00		\$2,475.00		\$2,525.00	
Proposal G - Park Catch Basins	Larvicide Briquette	200	\$500.00	\$800.00	\$500.00	\$800.00	\$500.00	\$800.00
Est Cost Per Application Proposal G			\$1,300.00		\$1,300.00		\$1,300.00	
Estimated Annual Total:			\$36,200.00		\$37,200.00		\$38,375.00	
Estimated Grand Total 3-Years			\$111,775.00					
Site Inspection		Y/N	Y					
Contact Information: Hours of Operation:			24 Hours					
24 Hr. Phone No.:			419-722-2607					
Email Address:			tgreen@vdc.net					
Can complete 100% work timely:		Y/N	Y					
Can meet Completion Schedule:		Y/N	Y					
Insurance Met:		Y/N	Y					
References:		Y/N	Y					
Deviation from Specs Section:		Y/N	Y					
General Questionnaire:		Y/N	Y					
Payment Terms:			Net 30					
Acknowledgement:		Y/N	Y					
Exceptions:		Y/N	None					
Forms:		Y/N	Y					

ATTEST:  
(\*Bid Opening conducted via a Zoom Meeting)  
Dennis Trantham  
Andrew Chambliss  
Nellie Bert  
Dina Gates

Emily Frontera  
Purchasing Manager



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

3/18/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION** IS **WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Edgewood Partners Insurance Center 5909 Peachtree Dunwoody Road, Suite 800 Atlanta GA 30328	<b>CONTACT</b> NAME: Certificate Unit PHONE (A/C, No, Ext): 404-781-1700 E-MAIL ADDRESS: certificate@epicbrokers.com	<b>FAX</b> (A/C, No):
License#: 0B29370 RENTOKI-01	<b>INSURER(S) AFFORDING COVERAGE</b>	<b>NAIC #</b>
<b>INSURED</b> Vector Disease Control International, LLC. Rentokil North America, Inc. (VDC455) 1320 Brookwood Drive, Suite H Little Rock AR 72202-1412	<b>INSURER A:</b> ACE American Insurance Company	22667
	<b>INSURER B:</b> ACE Property and Casualty Insurance Co	20699
	<b>INSURER C:</b> Allianz Underwriters Insurance Company	36420
	<b>INSURER D:</b> Starr Indemnity & Liability Company	38318
	<b>INSURER E:</b> Old Republic Insurance Company	24147
	<b>INSURER F:</b>	

**COVERAGES****CERTIFICATE NUMBER:** 1833587775**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:	Y		OGLG27240331	10/1/2024	10/1/2025	EACH OCCURRENCE \$5,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$5,000,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$5,000,000 GENERAL AGGREGATE \$5,000,000 PRODUCTS - COMP/OP AGG \$5,000,000 \$
E	<input checked="" type="checkbox"/> <b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY	Y		MWTB 318783 24	10/1/2024	10/1/2025	COMBINED SINGLE LIMIT (Ea accident) \$8,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			XOOG27239420	10/1/2024	10/1/2025	EACH OCCURRENCE \$5,000,000 AGGREGATE \$5,000,000 \$
E	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input checked="" type="checkbox"/> N	N/A	MWC 318781 24	10/1/2024	10/1/2025	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$2,000,000 E.L. DISEASE - EA EMPLOYEE \$2,000,000 E.L. DISEASE - POLICY LIMIT \$2,000,000
C D	CPL (Excluding Aerial Ops) Aviation Liability/Chemical Drift			USL03016524 1000642289-03	10/1/2024 10/1/2024	10/1/2025 10/1/2025	Ea Incident/Aggregate \$5,000,000 Each Occurrence \$10M/\$1M (\$4M-Agg)

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES** (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CPL = Contractor's Pollution Liability  
The City of Troy, including all elected and appointed officials, all employees and volunteers, all boards, commissions, and/or authorities and council members, including employees and volunteers thereof, to the extent required by written contract are additional insured on a primary and non-contributory basis with respect to general liability and auto liability. 30-day notice of cancellation, except 10 days for non-payment of premium, applies to the extent required by written contract.

**CERTIFICATE HOLDER****CANCELLATION**

City of Troy  
500 W. Big Beaver Road  
Troy MI 48084

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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ACORD 25 (2016/03)

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THIS CERTIFICATE SUPERSEDES PREVIOUSLY ISSUED CERTIFICATE

## **IL 10 (12/06) OLD REPUBLIC INSURANCE COMPANY**

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

### **NOTICE OF CANCELLATION TO CERTIFICATE HOLDERS**

This endorsement modifies the notice of cancellation of insurance provided hereunder by adding the following:

- A.** In the event this policy is cancelled for any permissible reason, other than for nonpayment of premium, we shall endeavor to provide advance written notice of cancellation to certificate holders set out in the schedule on file with the Company, after notifying the first Named Insured of such cancellation. Notice of cancellation to certificate holders may be made by any commercially reasonable means, including mail, electronic mail, facsimile transmission or courier service.
- B.** This advance written notification of a cancellation of coverage is intended as a courtesy only. Our failure to provide such advance written notification will not extend the policy cancellation date, nor negate cancellation of the policy.

All other terms and conditions of this policy remain unchanged.

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

## **ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART  
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

### **SCHEDULE**

<b>Name Of Additional Insured Person(s) Or Organization(s)</b>	<b>Location And Description Of Completed Operations</b>
As required by written contract	As required by written contract
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

**A. Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

**B. With respect to the insurance afforded to these additional insureds, the following is added to Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
  2. Available under the applicable Limits of Insurance shown in the Declarations;
- whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.



**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**ADDITIONAL INSURED – OWNERS, LESSEES OR  
CONTRACTORS – SCHEDULED PERSON OR  
ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

## SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location(s) Of Covered Operations
As required by written contract	As required by written contract

**A. Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

**B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:**

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

- C. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or

2. Available under the applicable Limits of Insurance shown in the Declarations;  
whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

**NOTICE TO OTHERS ENDORSEMENT – SCHEDULE  
NOTICE BY INSURED'S REPRESENTATIVE**

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

- A.** If we cancel this Policy prior to its expiration date by notice to you or the first Named Insured for any reason other than nonpayment of premium, we will endeavor, as set out in this endorsement, to send written notice of cancellation, to the persons or organizations listed in the schedule that you or your representative create or maintain (the "Schedule") by allowing your representative to send such notice to such persons or organizations. This notice will be *in addition to* our notice to you or the first Named Insured, and any other party whom we are required to notify by statute and in accordance with the cancellation provisions of the Policy.
- B.** The notice referenced in this endorsement as provided by your representative is intended only to be a courtesy notification to the person(s) or organization(s) named in the Schedule in the event of a pending cancellation of coverage. We have no legal obligation of any kind to any such person(s) or organization(s). The failure to provide advance notification of cancellation to the person(s) or organization(s) shown in the Schedule will impose no obligation or liability of any kind upon us, our agents or representatives, will not extend any Policy cancellation date and will not negate any cancellation of the Policy.
- C.** We are not responsible for verifying any information in any Schedule, nor are we responsible for any incorrect information that you or your representative may use.
- D.** We will only be responsible for sending such notice to your representative, and your representative will in turn send the notice to the persons or organizations listed in the Schedule at least 30 days prior to the cancellation date applicable to the Policy. You will cooperate with us in providing the Schedule, or in causing your representative to provide the Schedule.
- E.** This endorsement does not apply in the event that you cancel the Policy.

All other terms and conditions of this Policy remain unchanged.

---

Authorized Representative

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

## **PRIMARY AND NONCONTRIBUTORY – OTHER INSURANCE CONDITION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART  
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

The following is added to the **Other Insurance** Condition and supersedes any provision to the contrary:

### **Primary And Noncontributory Insurance**

This insurance is primary to and will not seek contribution from any other insurance available to an additional insured under your policy provided that:

- (1) The additional insured is a Named Insured under such other insurance; and

- (2) You have agreed in writing in a contract or agreement that this insurance would be primary and would not seek contribution from any other insurance available to the additional insured.