

WHO Prequalification Programme / Vector Control Product Assessment

# WHO Public Assessment Report: WHOPAR Part 2

VECTRON T500

(Mitsui Chemicals Crop & Life Solutions, Inc.)

P-03226

## Executive Summary

Summary of Prequalification status for VECTRON T500 initial acceptance	Date	Outcome
Status on PQ list	March 2023	PQ
Quality, safety, efficacy	January 2023	MR
PQ: prequalification MR: meets requirements		

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## 1 Introduction

WHO's Prequalification Unit, Vector Control Product Assessment team (PQT/VCP) assesses vector control products and public health pesticide active ingredients to determine their acceptability and that they can be used safely, effectively and are manufactured to a high-quality standard. This is done by assessing product dossiers, inspecting manufacturing sites, and supporting quality-control testing of products. Products that meet prequalification requirements are added to the WHO list of vector control products.

WHO prequalification of vector control products primarily benefits populations most affected by vector-borne diseases by facilitating access to these prevention focused tools. The vector-borne diseases include malaria, and neglected tropical diseases such as Dengue, Chikungunya, Zika, Chagas, Lymphatic filariasis, Leishmaniasis, Human African trypanosomiasis, Onchocerciasis and Schistosomiasis.

This Executive Summary document conveys that, based on the application and product dossier supporting the product VECTRON T500 manufactured by Mitsui Chemicals Crop & Life Solutions, Inc. (PQ Ref# P-03226), the product has been found to meet the requirements for WHO prequalification.

## 2 Product identification

VECTRON T500 is a wettable powder formulation containing broflanilide (CAS No. 1207727-04-5; 50%). Broflanilide (CAS No. 1207727-04-5) is a meta-diamides insecticide developed by Mitsui Chemicals Crop & Life Solutions, Inc. (Japan). Broflanilide produces an insecticidal effect by binding to the gamma aminobutyric acid (GABA) receptor, thereby inhibiting the neurotransmission in insects.

The product, VECTRON T500, is intended to be used for the control of *Anopheles* mosquitoes as part of malaria control programs as an indoor residual spray. This WP product is intended to be applied to indoor walls, eaves, and other surfaces on which mosquitoes may rest at a rate of 100 mg broflanilide per square meter.

## 3 Assessment of quality

Please see current WHOPAR Part 3 Quality Assessment.

### Document information

Title	WHOPAR Part 3 Quality Assessment
Current version	V4
Publication date (current version)	September 2023

### Revision history

Document version	Date	Identification of changes	Notes
Version 4	September 2023	Formatting	Current version

Version 3	June 2023		
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## 4 Assessment of safety

Please see current WHOPAR Part 4 Safety Assessment.

### Document information

<b>Title</b>	WHOPAR Part 4 Safety Assessment
<b>Current version</b>	V5
<b>Publication date (current version)</b>	May 2025

### Revision history

Document version	Date	Identification of changes	Notes
Version 5	May 2025	Update cancer classification	Current version
Version 4	September 2023	Formatting	
Version 2	June 2023		

## 5 Assessment of efficacy

Please, see current WHOPAR Part 5 Efficacy Assessment.

### Document information

<b>Title</b>	WHOPAR Part 5 Efficacy Assessment
<b>Current version</b>	V4
<b>Publication date (current version)</b>	September 2023

### Revision history

Document version	Date	Identification of changes	Notes
Version 4	September 2023	Formatting	Current version
Version 2	June 2023		

## 6 Labelling

The proposed Declaration of Labelling has been reviewed by PQT/VCP and found to be consistent with the supporting information.

## 7 Post-prequalification commitments

There are no additional post-prequalification commitments associated with this decision of prequalification.

## 8 Pre-qualification listing decision

The review of the dossier submitted for the product VECTRON T500 has been completed by PQT/VCP. The results of the assessments show the product meets the requirements for prequalification when used according to the directions for use on the label. The product is allowed inclusion on the list of prequalified vector control products.