World Health Organization

WHO Prequalification Programme / Vector Control Product Assessment

WHO Public Assessment Report: WHOPAR Part 2

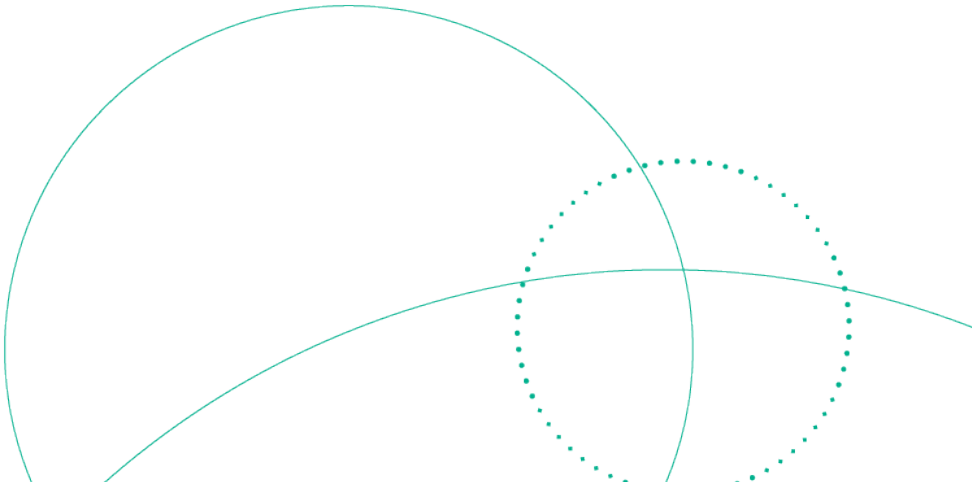
SC Johnson Guardian

(S.C. Johnson & Son, Inc.)

P-12643

Executive Summary

Summary of prequalification status for SC Johnson Guardian initial acceptance	Date	Outcome
Status on PQ list	August 2025	PQ
Quality, safety, efficacy	July 2025	MR
PQ: prequalification MR: meets requirements		



Contents

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 SC Johnson Guardian manufactured by S.C. Johnson & Son, Inc. (WHO Product ID: P-12643), the product has been found to meet the requirements for WHO prequalification.

2. Product identification

SC Johnson Guardian is a vapor releasing product (VP) formed from a polyester (PET) mesh substrate carrier dosed with transfluthrin (CAS No. 118721-89-3; 2.5 g/unit) as a spatial emanator. Transfluthrin is a type I synthetic pyrethroid that acts through modulation of nerve axon sodium channels, causing neurotoxicity in insects and mammals.

The product is intended to be used for the control of *Anopheles* spp. mosquitoes for malaria control as spatial emanator.

SC Johnson Guardian Parameters Assessed for Prequalification	
Parameter	**Value**
Transfluthrin	2.5 g/unit
Daily emanation rate (mean)	6.1 mg/day
Number of Units/Room	2 units in average sized room (30m^3) or 1 unit in a smaller room (<15m^3)
Usage	Indoor
Primary and Secondary Endpoints	% protective efficacy, % personal protection, and 24-hr mortality
Target Species	*Anopheles* spp.
Intended Useful Life	1 year
Shelf Life	2 years from date of manufacturer. Expiration date on label.

3. Assessment of quality

Please see current WHOPAR Part 3 Quality Assessment.

Document information

Title	WHOPAR Part 3 Quality Assessment
Current version	V2
Publication date (current version)	September 2026

Revision history

Document version	Date	Identification of changes	Notes
v1	August 2025		
v2	September 2026	Additional data demonstrating the stability of SC Johnson Guardian (2-week 54 °C accelerated storage stability in addition to previously submitted 8-week 40 °C accelerated storage stability)	

4. Assessment of safety

Please see current WHOPAR Part 4 Safety Assessment.

Document information

Title	WHOPAR Part 4 Safety Assessment
Current version	V1
Publication date (current version)	August 2025

Revision history

Document version	Date	Identification of changes	Notes

5. Assessment of efficacy

Please, see current WHOPAR Part 5 Efficacy Assessment.

Document information

Title	WHOPAR Part 5 Efficacy Assessment
Current version	V1
Publication date (current version)	August 2025

Revision history

Document version	Date	Identification of changes	Notes

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

Submission of the final 12-month results of the semi-field study in Benin within six months of the date of prequalification. The submission of the final 12-month study results must include full statistical analyses, including models implementing 'treatment' and 'day' as fixed effects, and 'hut' and 'sleeper' as random effects in all the fitted models, the complete code used for all statistical analyses in the format that it was produced and the full outputs from the selected statistical programme. The sample size used to construct 95% confidence intervals for the mean collections/biting rates must be the number of nights for the mean collections per night, and the number of nights and huts for the mean collections per night and hut or biting rates.

8. Pre-qualification listing decision

The review of the dossier submitted for the product SC Johnson Guardian 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.