

## Evaluation Report for Category B, Subcategory 1.2 Application

**Application Number:** 2011-0972  
**Application:** B.1.2 (Product chemistry – new source (site) new registrant)  
**Product:** Mosquito-Less Technical  
**Registration Number:** 30679  
**Active ingredients (a.i.):** Garlic oil  
**PMRA Document Number :** 2220851

### Purpose of Application

The purpose of this application was to register Mosquito-Less Technical, a new source of the technical grade active ingredient, garlic oil, by a new registrant.

### Chemistry Assessment

**Common Name:** Garlic oil  
**Chemical Name:** Not applicable as the product is a complex mixture

Mosquito-Less Technical has the following properties:

Property	Result
Colour and physical state	Clear yellow to light amber liquid
Nominal concentration	100%
Odour	Pungent garlic odour
Density	1.04 – 1.09 g/cm <sup>3</sup>
Vapour pressure	Not required for this product.
pH	Not required for this product.
Solubility in water	Insoluble in water
n-Octanol/water partition coefficient	Not required for this product.

The chemistry requirements for Mosquito-Less Technical have been completed.

### Health Assessments

The registration of a new source of active ingredient for garlic oil, Mosquito-

Less Technical, to manufacture new end-use mosquito repellent products is consistent with the currently registered garlic oil technical product.

As per the PMRA memo, *Data Requirements for Garlic Products*, no new toxicological data were required. Garlic oil is of slight acute toxicity by the oral route, low acute toxicity by the dermal route, a severe skin irritant, a moderate eye irritant and a dermal sensitizer. As garlic is a known mucosal irritant, inhalation of garlic oil mist or vapour may result in throat and respiratory tract irritation.

To be consistent with the currently registered garlic oil technical product (Registration Number 29635), the PMRA requires on the primary display panel to add “CAUTION POISON” and “WARNING – EYE IRRITANT. DANGER – SKIN IRRITANT”. To the secondary display panel, the PMRA requires replacing “Avoid contact with skin, eyes or clothing. Potential skin sensitizer. May irritate the eyes and skin.” with “Harmful if swallowed. DO NOT get in eyes. Causes eye irritation. DO NOT get on skin. Severely irritating to the skin. Avoid inhaling/breathing mist or vapours. Potential skin sensitizer.”

### **Environmental and Value Assessments**

Environmental and value assessments were not required for this application.

### **Conclusion**

The PMRA has completed an assessment of the available information and is able to support the full registration of Mosquito-Less Technical.

### **References**

<b>PMRA Document Number</b>	<b>Reference</b>
2021572	2011, PART 2 Chemistry DACOs 2.1-2.14.13, DACO: 2.1,2.11.1,2.11.2,2.11.3,2.11.4,2.13.1,2.13.2,2.13.3,2.13.4,2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.2,2.14.3,2.14.4,2.14.5,2.14.6,2.14.7,2.14.8,2.14.9,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
2021573	2010, Mosquito-less-Chemistry-2.11.1-4, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
2122172	2011, May 2011-Garlic Oil Production Process, DACO: 2.11.3 CBI
2122173	2011, May 2011-Garlic Oil Raw Material CofA, DACO: 2.11.3 CBI
2122176	2011, Chemistry-2.11.3-garlic TGAI-deficiency, DACO: 2.11.3 CBI

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