

Chemical Factsheet

Lemongrass Oil

General Information

- Product Names:
Natural Home Insect Control (Hot Shot)
- Chemical Class: Oil- essential
- Uses: Insect repellent, insecticide
- Beyond Pesticides rating: [Least-toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Not documented
- Endocrine Disruption: Not documented
- Reproductive Effects: Not documented
- Neurotoxicity: Not documented
- Kidney/Liver Damage: Not documented
- Sensitizer/ Irritant: Not documented
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Not documented
- Toxic to Fish/Aquatic Organisms: Not documented
- Toxic to Bees: Not documented

Additional Information

- Regulatory Status:
 - [EPA Reregistration Eligibility Decision \(RED\)](#)
 - [EPA Minimum Risk \[FIFRA 25\(b\)\] Pesticides](#)
- Supporting information:
 - [Oil of Lemongrass](#) (Pesticide Action Network)
 - [Plant-based mosquito repellents: making a careful choice](#) (Northwest Coalition Against Pesticides)
 - [Backyard mosquito management](#) (Beyond Pesticides)
- Studies:
 - [Antifungal activity of lemongrass \(*Cymbopogon citratus* L.\) essential oil against key postharvest pathogens](#). Tzortzakis, N., and Economakis, C. 2007. *Innovative Food Science and Emerging Technologies*.
 - [Formulation of an effective mosquito-repellent topical product from Lemongrass oil](#). Oyedele, A., Gbolade, A., Sosan, M., Soyelu, O., Orafidiya, O. 2002. *Phytomedicine*.

Factsheet generated on February 1, 2026