

# TICK REPELLENT ROUNDUP

FEATURES	DEET	PICARIDIN	OIL OF LEMON EUCALYPTUS	ESSENTIAL PLANT OILS
RECOMMENDED CONCENTRATION FOR MAXIMUM EFFECTIVENESS	20 - 30%	20%	30% or more	NOT AVAILABLE
MAXIMUM PROTECTION TIME	≤ 8 hours ticks ≤ 12 hours mosquitoes	≤ 12 hours ticks ≤ 12 hours mosquitoes	≤ 6 hours mosquitoes	≤ 2 hours ticks and mosquitoes
EFFECTIVENESS	Works well when used alone. Do not use a combined DEET with sunscreen product	Good alternative to DEET - less toxicities	Recommended by the CDC as an effective plant-based alternative to DEET	Limited research; estimates only
EPA-APPROVED	YES	YES	YES	NO
PRECAUTIONS & SIDE EFFECTS	Use caution on children. Do not use if pregnant or under clothing. May damage synthetic fabrics	Wash hands after application to avoid ingesting	Do not use on children under age 3. Ingesting OLE can cause neurological toxicity	Check label for age appropriateness
PRODUCTS*	Brands include OFF and many generics	Brands include Ranger Ready and Sawyer	Brands include Repel and Cutter	Common ingredients include lemongrass, cedar, and peppermint oils

\*For information purposes only. GLA does not endorse any specific repellents.

Overview of on-skin tick repellents. Always read and follow individual repellent labels for precautions and proper application instructions. Learn more about the Environmental Protection Agency's repellent review process at [EPA.gov](https://www.epa.gov) and more ways to Be Tick AWARE at [GLA.org](https://www.gla.org)

