

# In2Care Mosquito Repellent

## Nature's Insect repellent

### Plant-based

Based on natural Lemon Eucalyptus oil. Smooth to the skin & with a fresh citrus scent

### DEET free

A unique plant extract formula. Providing a safe & green alternative to DEET

### Effective

Research shows that it actively repels mosquitoes & insects up to 6 hours

## A novel insect spray repellent based on botanic ingredients

Mosquitoes are a nuisance and transmit diseases like Dengue, Chikungunya, Zika, Yellow Fever and Malaria all over the world. Instead of using synthetic chemicals, In2Care® Mosquito Repellent is based on Eucalyptus citriodora plant extracts; nature's most effective way of protecting yourself against mosquito bites.

The In2Care® Mosquito Repellent is a novel spray that can be applied on human skin as a repellent to prevent mosquito bites. The active ingredient of the spray is Citriodiol®, an extract of lemon eucalyptus oil. These skin-soothing plant extracts have a long tradition as natural insect repellents and provide an effective remedy against biting insects.

In2Care® Mosquito Repellent is highly effective in repelling mosquitoes and has a pleasant fresh smell. This biological repellent is suitable for use by the whole family, including pregnant women and children.



### Spray Features:

- Plant-based, DEET free
- Offers 6 hours protection
- 1 of only 4 active ingredients recommended by CDC
- Scientifically validated as effective as DEET
- US-EPA registered
- Pleasant scent
- Non-sticky spray
- Allowed as cabin luggage
- Does not harm your gear



### Manipulating mosquito behaviour

Mosquito females need blood for egg development. Most mosquito species that transmit diseases like malaria or Dengue actually prefer to bite humans. They use human-specific cues and odours to track us down.

Masking our smell is a way to manipulate the mosquito and protect ourselves from mosquito bites. There are several compounds that can be used to repel insects. Mosquitoes are sensitive to chemicals such as DEET, but also to natural oils from plants like *Eucalyptus citriodora*.

## Key ingredients: effective, green and skin-soothing

### How does it work?

In2Care® Mosquito Repellents come in a pack size of 3.4 FL OZ (100 ml). The repellent is a clear liquid with a fresh pleasant smell that is easy to apply with the spray applicator pump and remains active for many hours. The active ingredient of In2Care® Mosquito Repellent is Citriodiol®, which is the trade-name for oil of lemon eucalyptus or OLE. It contains approx. 65% *p*-menthane-3,8-diol (PMD), which has pesticidal properties and repels insects. The repellents naturally-sourced active substance masks the attractive smells that humans emit so that mosquitoes are unable to locate and bite us. It is also effective against other biting insects and arthropods that can cause nuisance or transmit diseases, such as bedbugs, flies and ticks.



[Check our repellent test](#)

### Citriodiol®



#### “Oil of Lemon Eucalyptus (OLE)”

Contains 65% PMD  
(*p*-menthane-3,8-diol)

OLE CAS Number: 1245629-80-4

EPA Reg. Number: 84878-2

Chemical Class: Botanical

Use: Mosquitoes, ticks, midges

Toxicity rating: Least-toxic

Signal Words: Warning

Health Effects: Eye irritation

Environmental Effects: None

### Personal protection

Scientific studies in the In2Care® laboratory show that the repellent spray provides powerful and effective protection from all major mosquito species (*Aedes*, *Anopheles* and *Culex*). It is as effective as the chemical repellent DEET and provides full protection for up to 6 hours after application. Other field studies show that the spray's active ingredient (Citriodiol®) also gives protection against ticks, midges and biting flies. In2Care® Mosquito repellent can provide important personal protection, particularly against mosquitoes that can transmit diseases such as Dengue, Chikungunya, Yellow Fever, Zika virus or malaria. These aggressive and day-time active mosquitoes can be effectively repelled by applying the spray onto exposed areas of the skin

### A safe alternative to chemicals like DEET

In2Care® Mosquito repellent contains 30% Citriodiol®, which is a modified *Eucalyptus citriodora* extract with high efficacy and a low toxicity profile. Unlike DEET, Citriodiol® is a green, biodegradable product that is smooth to the skin. Its source oil, OLE, is harvested from plants in an environmentally sustainable manner. According to US-EPA, the source material of In2Care Repellent's active ingredient is “generally recognized as safe” (GRAS). The **Centre for Disease Control and Prevention recommends the use of OLE** to help people avoid the bites of disease-carrying mosquitoes. It is the only naturally-sourced active ingredient to receive this recommendation.

### About In2Care

In2Care® BV is a private limited company registered and based in the Netherlands. We develop and market innovative mosquito control products that are based on safe ingredients. For Dengue, Chikungunya, Yellow Fever and Zika control, we developed the In2Care® Dissemination Unit; a user-friendly product that works with a novel combination of actives to effectively target container-breeding *Aedes* mosquitoes. For malaria control, we developed a low-cost tool called the In2Care® Eave Tube that provides household protection and impact on resistant anopheline populations. All In2Care® products are scientifically tested in our laboratory and validated under field conditions.